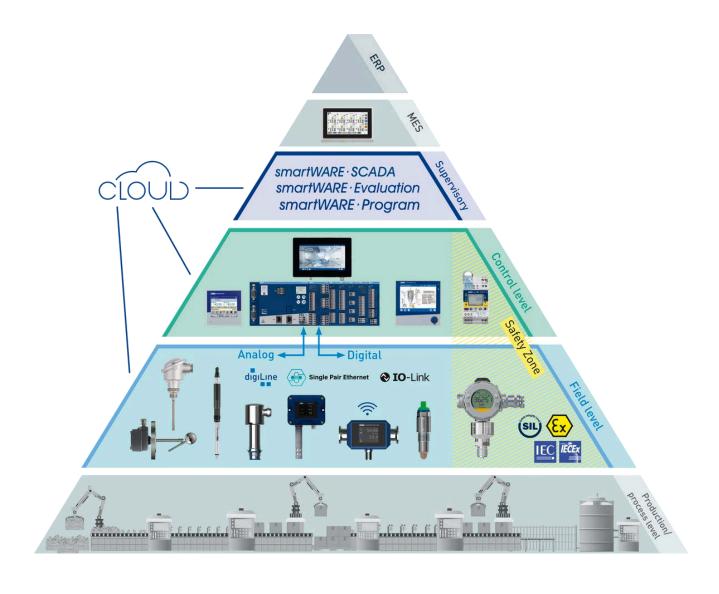


MORE THAN SENSORS AND AUTOMATION



2025 Stock Catalog USA





















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General
Terms and
Conditions

Return Material Authorization "RMA" Terms and Conditions

Thermocouples according to EN 60 584

Element	Maximum temperature	Defined to	Color
Fe-CuNi "J"	750°C	1200°C	+ sw - ws
Cu-CuNi "T"	350°C	400°C	+ bn - ws
NICr-NI "K"	1200°C	1370°C	+ gn - ws
NiCr-CuNi "E"	900°C	1000°C	+ vt - ws
NiCrSi-NiSi "N"	1200°C	1300°C	+ vt - ws
Pt10Rh-Pt "S"	1600°C	1540°C	+ or - ws
Pt13Rh-Pt "R"	1600°C	1760°C	+ or - ws
Pt30Rh-Pt6Rh "B"	1700°C	1820°C	+ gr - ws

Thermocouples according to DIN 43 710

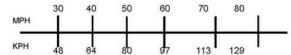
Fe-CuNi "L"	700°C*	900°C	+ ra
re-culvi L	700 C	300 C	- bl
Cu-CuNi "U"	400°C*	600°C	+ rd
Cu-culvi O	400 C	600 C	- bn

^{*}Constant temperature in pure air

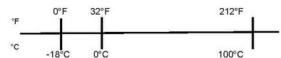
Tolerance classes (according to DIN EN 60751)

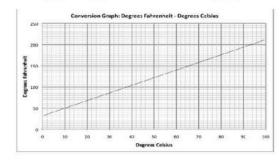
class	Sensor category	Temperature range	Tolerance in K
AA	Thin film F0,1 Wire W0,1	0 to +150°C -50 to +250°C	± (0.10 K + 0.0017 x ltl)
A	Thin film F0,15 Wire W0,15	-30 to +300°C -100 to +450°C	± (0.15 K + 0.002 x ltl)
В	Thin film F0,3 Wire W0,3	-50 to +500°C -196 to +600°C	± (0.30 K + 0.005 x HI)
С	Thin film F0,6	-50 to +600°C	± (0.60 K + 0.01 x ltl)

Speed



Temperature





Conversion table

Length

1 in	= 25.4 mm	1 cm	= 0.3937 in
1 ft = 12 in	= 304.8 mm	1 cm	= 0.0328 ft
1 yard = 3 ft	= 914.4 mm	1 m	= 1.0936 yd
1 mile (statue)	= 1.609 km	1 km	= 0.6214 mile (statue)
1 mile (nautical)	= 1.853 km	1 km	= 0.54 mile (nautical)
Area			

Area

1 in ²	= 6.4516 cm ²	1 cm ²	= 0.1550 in ²
1 $ft^2 = 144 in^2$	= 0.0929 m ²	1 m ²	= 10.7639 ft ²
$1 \text{ yd}^2 = 9 \text{ ft}^2$	= 0.8361 m ²	1 m ²	= 1.19599 yd ²
1 acre = 4840 vd2	= 0.4047 ha	1 a	= 0.0247 acre = 119.6 yd2
1 mile ²	= 2 5900 km ²	1 km²	= 0.387 mile ²

Volume

1 in ³	= 16.387 cm ³	1 cm ³	= 0.06102 in ³
1 ft3 = 1728 in3	= 0.0283 m ^a	1 m ^a	= 35.3156 ft ³
1 yd ³	= 0.7646 m ³	1 m ³	= 1.30795 yd3
1 US gal	= 3.7854	11	= 0.2642 US gal
1 US gal	= 0.8327 UK gal		10000010000000000000000000000000000000
1 register ton	= 2.8317 m ³	1 m ³	= 03531 reg. ton

Mass

1 oz (ounce)	= 28.35 g	1 g	= 0.0353 oz
1 lb (pound)	= 0.45359 kg	1 kg	= 2.205 lb
1 ton (short)	= 907.185 kg	1 to	= 1.102 ton short
1 ton (long)	= 1.01605 to	1 to	= 0.984 ton long

Density

1 lb/in³	= 27.68 g/cm ³	1 g/cm ³	= 0.362 lb/in3
1 lb/ft ³	= 0.16 g/cm ³	1 g/cm ³	= 62.4 lb/ft ³
1 lb/imp.gal.	= 0.09978 g/cm ³	1 g/cm ³	= 10.022 lb/ig
1 lb/US gal.	= 0.1198 g/cm ³	1 g/cm ³	= 8.35 lb/USg

Force

1 gr. weight (wt.)	= 0.0648 p	1 p	= 15.4 gr.wt.
1 pound weight (lbf)	= 0.4536 kp	1 kp	= 2.204 lbf
1 poundal (pdl.)	= 0.0141 kp	1 kp	= 70.937 pdl
1 ton weight short	= 0.907185 Mp	1 Mp	= 1.1023 ton wt.sht
1 ton weight long	= 1.016 Mp	1 Mp	= 0.984 ton wt. long

Pressure

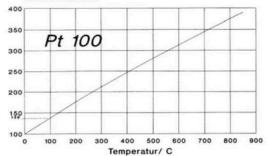
1 lbf/ft²	=0.0049 kp/cm ²	1 kp/cm ²	= 2048 lb/ft ²
1 lbf/in ²	= 0.070307 kp/cm ²	1 kp/cm ²	= 14.223 lbf/in ²
1 in of water	= 0.002539 kp/cm ²	1 kp/cm ²	= 394 in of water
1 in of mercury	= 0.03453 kp/cm ²	1 kp/cm ²	= 28.96 in of merc.
1 kips = 1000 psi	= 70.3 kp/cm ²		

Speed

1 ft/sec	= 1.0973 km/h	1 km/h	= 0.911327 ft/sec
1 ft/min	= 0.0183 km/h	1 km/h	= 54.681 ft/min
1 mile/h	= 1.6093 km/h	1 km/h	= 0.621388 mile/h

Pt100 characteristic curve

Widerstand/Ohm



Pressure unit conversion table

	bar	mbar	Pa (N/m²)	kPa (kN/m²)	torr mmHg (0°C)	mWS (4°C)	at kp/cm²	inch Hg (0°C)	inch H2O (4°C)	PSI Ib/inch²	atm
bar	1	1000	100000	100	750.062	10.1972	1.01972	29.53	401.463	14.5038	0.986923
mbar	0.001	1	100	0.1	0.750062	0.0101972	0.00101972	0.02953	0.401463	0.014504	0.000986923
Pa (N/m²)	0.00001	0.01	1	0.001	0.007501		1.01972 x 10-5	0.0002953	0.004015	0.000145038	9.86923 x 106
kPa (kN/m²)	0.01	10	1000	1	7.501	0.10197	0.010197	0.2953	4.015	0.145038	0.00986923
torr mmHg (0°C)	0.00133322	1.33322	133.322	0.133322	1	0.0135951	0.00135951	0.03937	0.53524	0.019337	0.00131579
mWs (4°C)	0.098067	98.0665	9806.65	9.80665	73.5559	1	0.1	2.8959	39.3701	1.42233	0.096784
at kp/cm²	0.980665	980.665	98066.5	98.0665	735.559	10	1	28.959	393.701	14.2233	0.967841
inch Hg (0°C)	0.033864	33.8639	3386	3.386	25.4	0.345316	0.034532	1	13.5951	0.491154	0.033421
inch H2O (4°C)	0.00249089	2.49089	249.089	0.249089	1.86832	0.0254	0.00254	0.073556	1	0.03613	0.002458
PSI lb/inch²	0.06895	68.9476	6894.76	6.89476	51.7149	0.70307	0.070307	2.03602	27.68	1	0.068046
atm	1.01325	101325	1013.25	101.325	760	10.3323	1.03323	29.921	406.78	14.6959	1





JUMO Mineral-Insulated Thermocouples with Compensating Cable According to DIN 43710 and DIN EN 60584 (901210)

Features

- For temperatures between -328 and 2192 °F (-200 and 1200 °C)
- Flexible sheath cable with vibration-resistant measuring insert
- Protection tube diameter: 1.5 mm
- Quick response time
- Application-specific insertion length

(full tip length 7 ½ inches)

Part number	Operating temperature	Measuring Insert	Diameter	Fitting length	Cable length	Price
00445812	-328 to 2192 °F (-200 to 1200 °C)	1 x NiCr-Ni "K"	1.5 mm	190 mm	3000 mm	\$71.60

JUMO Screw-in RTD Temperature Probe

with form B terminal head (902020)

Features

- For temperatures between -58 and 752 °F (-50 and 400 °C)
- With interchangeable measuring insert
- As single or double RTD temperature probe
- Available with transmitter
- Protection type IP65



Part number	Class	Operating temperature	Measuring insert	Diameter	Fitting length	Process connection	Price
00329928	В	-58 to 752 °F (-50 to 400 °C)	2 x Pt 100 (2-wire)	9mm	100 mm	Thread G 1/2	\$216.26
00439161	В	-58 to 752 °F (-50 to 400 °C)	1 x Pt 100 (3-wire)	9mm	160 mm	Thread 1/2-14 NPT	\$202.72

JUMO Screw-in RTD Temperature Probe

with form J terminal head (902030)

- For temperatures between -58 and 752 °F (-50 and 400 °C)
- As single or double RTD temperature probe
- Protection type IP65



Part number	Operating temperature	Measuring insert	Diameter	Fitting length	Process connection	Price
00055692	-58 to 752 °F (-50 to 400 °C)	1 x Pt 100 (2-wire)	6 mm	50 mm	Thread G 1/2	\$125.33
00055693	-58 to 752 °F (-50 to 400 °C)	1 x Pt 100 (2-wire)	6 mm	100 mm	Thread G 1/2	\$124.51
00055694	-58 to 752 °F (-50 to 400 °C)	1 x Pt 100 (2-wire)	6 mm	150 mm	Thread G 1/2	\$127.99
00383011	-58 to 752 °F (-50 to 400 °C)	1 x Pt 100 (2-wire)	6 mm	50 mm	Thread G 1/2	\$166.77





JUMO Screw-in RTD Temperature Probe

with connecting cable (902050)

Features

- For measuring temperatures in liquids and gases
- For temperatures from -58 to 572 °F (-50 to 300°C)
- Ability to form reliable seals for vacuum and high pressure applications
- Single RTD temperature probe in 2-wire circuit
- Shielded connecting cable is bend-protected



Part number	Cable shielding	Process connection	Operating temperature	Measuring insert	Diameter	Fitting length	Cable length	Price
00055722	Shielded connecting cable	Thread M8 (x1.25)	-58 to 572 °F (-50 to 300 °C)	1 x Pt 100 2-wire	8 mm	25 mm	2500 mm	\$130.79

JUMO Push-In RTD Temperature Probe

with connecting cable (902150)

Features

- For temperatures between -58 to 356 °F (-50 to 180°C)
- Single RTD temperature probe in 2-wire circuit
- Connecting cable made of silicone or PTFE

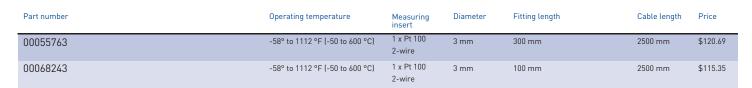


Part number	Model	Operating temperature	Measuring insert	Diameter	Fitting length	Cable end	Cable length	Price
00389771	Push-in RTD with connecting cable, one piece protection tube in SS	-58 to 356 °F (-50 to 180 °C) Silicone cable	1 x Pt 100 2-wire	6 mm	50 mm	Ferrules	2500 mm	\$53.34
00589437	Push-in RTD with connecting cable, multi-part protection tube (welded) in SS	-58 to 356 °F (-50 to 180 °C) Silicone cable	1 x Pt 100 2-wire	6.4 mm	152.4 mm	Ferrules	2500 mm	\$67.20
00589459	Push-in RTD with connecting cable, one piece protection tube in SS	-58 to 356 °F (-50 to 180 °C) Silicone cable	1 x Pt 100 2-wire	6 mm	50 mm	Tin plated cable ends	2000 mm	\$47.36
00589505	Push-in RTD with connecting cable, multi-part protection tube (welded) in SS	-58 to 356 °F (-50 to 180 °C) Silicone cable	1 x Pt 100 2-wire	6.4 mm	51 mm	Bare cable ends	2000 mm	\$56.93
00642527	Push-in RTD with connecting cable	-58 to 500 °F (-50 to 260 °C) PTFE	1 x Pt 100 2-wire	4.8 mm	76 mm	Contact pin 6.3	1000 mm	\$92.19

JUMO Mineral-Insulated RTD Temperature Probes

with connecting cable according to DIN EN 60751 (902210)

- Flexible sheath cable with vibration-resistant measuring insert
- Sheath contains low-ohmic copper conductor wires embedded in compressed, heat-resistant magnesium oxide
- For temperatures between -58 and 1112 °F (-50 and 600 °C)
- Quick response time









00369207

JUMO FOODtemp

Insertion RTD temperature probe (902350)

- For temperatures between -58 to 500 °F (-50 to 260 °C)
- Steam tight and pressure resistant
- High mechanical strength
- In 3-wire circuit
- Available with multiple measuring points



Part number	Model	Operating temperature	Measuring insert	Diameter	Fitting length	Insertion tip	Cable length	Connecting cable specs	Price
00083792	RTD insertion temperature probe with PPS plastic handle Ø 20 mm and PTFE cable	-58 to 392 °F -50 to 200 °C	1 x Pt 100 3-wire	4 mm	100 mm	Centric, angle 25°	4000 mm		\$300.21
00089569	RTD insertion temperature probe with PPS plastic handle Ø 20 mm and PTFE cable	-58 to 392 °F -50 to 200 °C	2 x Pt 100 3-wire	4 mm	100 mm	Centric, angle 25°	4000 mm		\$340.37
00325266	RTD insertion temperature probe with PTFE handle Ø 15 mm and PTFE cable	-58 to 392 °F -50 to 200 °C	2 x Pt 100 3-wire	4.5 mm	100 mm	Bevel, angle 45°	4000 mm		\$416.46
00328395	RTD insertion temperature probe with PTFE handle Ø 15 mm and PTFE cable	-58 to 500 °F -50 to 260 °C	1 x Pt 100 3-wire	4 mm	150 mm	Centric, angle 25°	4000 mm	Shielded	\$364.53
00333089	RTD insertion temperature probe with PTFE handle Ø 15 mm and PTFE cable	-58 to 500 °F -50 to 260 °C	1 x Pt 100 3-wire	4 mm	100 mm	Centric, angle 25°	4000 mm		\$406.92
00338153	RTD insertion temperature probe with silicone handle Ø 10 mm and silicone cable	-58 to 500 °F -50 to 260 °C	1 x Pt 100 3-wire	4 mm	100 mm	Centric, angle 25°	4000 mm	Shielded	\$188.14
00369207	Miniature RTD insertion temperature probe with FPM handle Ø 6.5 mm and shielded PTFE cable	-58 to 392 °F -50 to 200 °C	1 x Pt 100 3-wire	Ø 4 mm stepped down to Ø 2.5 mm	80 mm	Centric, angle 25°	4000 mm	Shielded	\$238.56
00412785	RTD insertion temperature probe with PPS plastic handle Ø 20 mm and PTFE cable	-58 to 392 °F -50 to 200 °C	1 x Pt 100 3-wire	4 mm	150 mm	Centric, angle 25°	4000 mm		\$270.75
00475199	RTD insertion temperature probe with silicone handle Ø 10 mm and PTFE cable	-58 to 392 °F -50 to 200 °C	1 x Pt 100 3-wire	4.5 mm	150 mm	Centric, angle 25°	8000 mm	Shielded	\$259.84
00523228	RTD insertion temperature probe with PEEK handle and PTFE cable	-58 to 500 °F -50 to 260 °C	1 x Pt 100 3-wire	4 mm	100 mm	Bevel, angle 25°	4000 mm		\$251.02
00585550	RTD insertion temperature probe with PEEK handle and PTFE cable	-58 to 500 °F -50 to 260 °C	1 x Pt 100 3-wire	Ø 4 mm stepped down to Ø 2.5 mm	100 mm	Centric, angle 25°	4000 mm		\$268.31



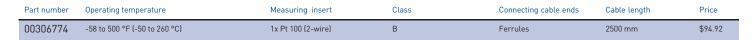


JUMO Surface RTD Temperature Probe

with connecting cable (902550)

Features

- For temperatures from -58 to 500 °F (-50 to 260 °C)
- Aluminum protection fittings
- Simple and quick installation
- Low thermal mass
- Used for measuring temperatures on closed pipe systems and / or other round or level surfaces



JUMO STEAMtemp Push-in RTD Temperature Probe

in steam tight version (902830)

Features

- For temperatures between -58 to 302 °F (-50 to 150 °C)
- As single or double RTD temperature probe
- Preferred choice for measuring in sterilizers and other applications in a pressurized atmosphere containing steam, such as laboratory equipment

Part number	Operating temperature	Measuring insert	Diameter	Class	Fitting length	Cable length	Price
00374486	-58 to 302 °F (-50 to 150 °C) PTFE connecting cable	2 x Pt 100 (3-wire)	6 mm	А	200 mm	5000 mm	\$174.03
00446561	-58 to 302 °F (-50 to 150 °C) PTFE connecting cable	1 x Pt 100 (3-wire)	6 mm	А	200 mm	5000 mm	\$172.66

JUMO Wtrans T

RTD Temperature Probe with Wireless Data Transmission (902930)

- Measuring ranges: -22 to +500 °F or -328 to +1112 °F
- Radio frequency: 868.4 MHz or 915 MHz
- Also available with ATEX approval *ATEX only comes in 868MHz
- Open air range up to 300 m
- Wiring expenses are eliminated with modern wireless technology
- Fail-safe transmission with telegram coding
- Battery status monitoring
- Configurable with easy-to-use PC setup program

Part number 0	perating temperature	Measuring insert	Transmit. frequency	Insertion length	Insertion tip	Price
00496833 -	22500°F (-30260°C)	1x Pt1000 3-wire	915 MHz	100 mm	bevel, angle 45°	\$546.92
PC Interface cable	Interface					Price
00534690 Battery-Set 3,6 V/1700 mAh Lithium (+125°C) EBD BATTERY ETS						
00456352	PC interface with converter USB/TTL					\$247.41





Temperature Probes, Thermostats



JUMO wTRANS receiver Universal Receiver for JUMO Wireless Measuring Probes (902931)

Features

- Universal receiver for JUMO wireless measuring probe
- In combination with corresponding transmitter for RTD temperature probes, thermocouples, resistance/potentiometer, voltage input, or pressure measurement
- Wiring expenses are eliminated with modern wireless technology
- For up to 16 transmitters per receiver (can be freely combined)
- RS485 interface with Modbus protocol
- Four analog outputs/up to two switching outputs (relay)
- Operation directly on device or by using setup program on PC
- Customer-specific linearization (40 value pairs or 4th order polynomial)



Part number	Basic type	ITransmitter frequency	Voltage supply	Price
00543032	Wtrans receiver T01.EC1 with wireless transmission of the measured values, 4 analog outputs	915 MHz	AC 110240V +10/-15%,4863Hz	\$780.33
PC Interface cab	le Interface			Price
00482648	Antenna wall bracket with opposite pole for Lambda/4-antenna			\$28.42
00456352	Converter USB/TTL			\$241.26

JUMO EM-Series

Panel mounted thermostats up to 572 °F (300 °C) (602021)

- Liquid or gas expansion
- Self-monitoring in the event of a pressure drop
- Safety cut-out at -4 °F (-20 °C)
- Single-pole snap switches



Part number	Basic Type	Range	Capillary Length	Switch differential	Probe diameter	Price
60000211	EM-5 Temperature limiter, adjustable (TB), 1-pole	122 to 572 °F (50 to 300 °C)	1000 mm	2.5 %	6 mm	\$214.87
60000494	EM-1 Temperature controller (TR), 1-pole	32 to 212 °F (0 to 100 °C)	1000 mm	2.5 %	6 mm	\$173.57
60000495	EM-1 Temperature controller (TR), 1-pole	122 to 572 °F (50 to 300 °C)	1000 mm	2.5 %	6 mm	\$201.19
60000923	EM-1 Temperature controller (TR), 1-pole	122 to 572 °F (50 to 300 °C)	2000 mm	2.5 %	6 mm	\$212.20
60000924	EM-5 Temperature limiter, adjustable (TB), 1-pole	122 to 572 °F (50 to 300 °C)	1000 mm	2.5 %	6 mm	\$187.24
60002717	EM-1 Temperature controller (TR), 1-pole	122 to 572 °F (50 to 300 °C)	1000 mm	2.5 %	8 mm	\$173.57





JUMO dTRANS T03

2-wire / 3-wire transmitter (707030)

Features

- Designs for B head or DIN rail installation
- PT100 (2 or 3-wire connection)
- Analog measured value processing
- Smallest measuring range 25 kelvin
- Output: 2-wire 4 to 20 mA; 3-wire 0 to 10 V
- Adjustable / configurable version
- Measuring circuit monitoring NAMUR NE 43
- Fine adjustment / configuration via setup program





Part number	Input	Output	Range	Price
00394779	1 x Pt 100 (3-wire)	4 to 20 mA (2-wire)	32 to 212 °F (0 to 100 °C)	\$88.08
00438518	1 x Pt 100 (3-wire)	4 to 20 mA (2-wire)	32 to 212 °F (0 to 100 °C)	\$179.23
Part number	Interface			Price
00543032	PC Interface with Convert	er USB/SPI		\$780.33

JUMO dTRANS T05

Programmable 2-wire transmitter (707050)

Measuring input for RTD temperature probe, thermocouple, resistor / potentiometer, resistance transmitter, and voltage

- Input and output are galvanically isolated
- Control LED (red / green)
- Configuration directly via USB cable (mini B) without additional auxiliary voltage
- Customer-specific linearization
- Detection of the min./max. process value (drag indicator function including point in time)
- Option to specify the temperature in °F for temperature sensors



Part number	Input	Output	Range	Price
00582219	1 x Pt 100 (3-wire)	4 to 20 mA (2-wire)	32 to 212 °F (0 to 100 °C)	\$173.19





JUMO dTRANS T06

Multifunctional Four-Wire Transmitter in Mounting Rail Case (707071)

Features

- Universal input for a large number of sensors and standard signals
- Intuitive operation and configuration on the device or through USB interface with setup program
- RS485 interface (Modbus RTU) and relay output limit value (option)
- Intelligent additional functions such as min./max. drag indicator, operating hours counter, and output simulation
- SIL 2/SIL 3 according to DIN EN 61508 and PL c/d according to DIN ISO 13849 (option)
- Sensor matching for RTD temperature probes



Part number	Version	Voltage supply	Range	Input 1	Output	Price
00694861	Standard with default settings	DC24V +10/-15 %	0100	Pt100 3-wire	420 mA	\$426.47

JUMO miroTRON refrigeration Kit

Electronic thermostat with optional PID two-state controller function (701080) + Push-in RTD temperature probe with connecting cable (902150)

- Intuitive startup and operation for ease of use
- High degree of control quality with optional PID autotuning
- Integrated timer function for precise timing operations
- · Service and operating hours counter for maintenance tracking
- Cost-effective solution ideal for simple control applications
- Shielded cable with optional bend protection
- Available in straight and angled variants for versatile installations
- · Strain-relieved design for durability and longevity





Part number	Version	Voltage supply	Input 1	Output	Price
00786083	Standard with default settings	AC 115v +10/ -15%	RTD Pt100/pt1000	2 relays	\$246.12





JUMO eTRON T100

Electronic Thermostat (701052)

Features

- 5 measuring input groups available
- User level with 8 parameters
- ullet Dot matrix display 64 imes 80 pixels with 4 national languages
- Data logger function
- Service and operating hours counter
- Connection via terminal blocks with PUSH IN technology
- 10 A relay (changeover contact)
- Customer-specific linearization in the setup program
- Limit value monitoring
- Timer function
- Meeting the standards and specifications for use in rail vehicles according to DIN EN 50155, DIN EN 50121, and DIN EN 45545



Р	C Interface cable	Interface	Input	Voltage Supply	Price
0	0702233	eTRON T100			\$74.83
0	0718287	Standard with default settings	RTD temperature probes pt100, pt1000	AC 230 V +10/-15%, 48 to 63 Hz	\$231.47

JUMO diraTRON

Compact Controller (702110/11/12/13/14)

- Fixed value or program controller
- 2 parameter blocks
- Setpoint changeover (4 setpoint values)
- Ramp and timer function
- 4 limit value monitoring functions
- Individual operator level
- Separate application using structured text (ST code; option)
- Fast wiring through PUSH IN technology
- RS485 interface (option)



Part number	Format	Input	Output	Power Supply	Price
00680786	48x48 mm	1x analog input, 1x digital input	digital input	AC 110240V +10/-15%,4863Hz	\$456.91
00680787	948x48 mm	1x analog input, 1x digital input	digital input	AC/DC 2030V,4863Hz	\$456.91
Part number	Version	Software 1			Price
00678822	setup data	383.01.xx/1.03J			\$196.51



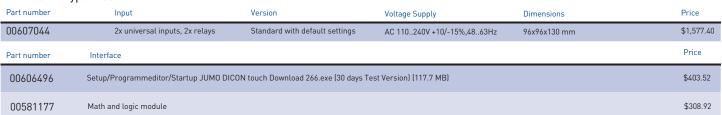


JUMO DICON touch

Two-Channel Process and Program Controller with Paperless Recorder and Touchscreen (703571)

Fasturac

- Precise control of two PID processes
- Easy-to-use program generator control and program entry
- Interfaces: USB host, USB device, Modbus, PROFIBUS DP, PROFINET IO device, and Ethernet
- Process-data recording with tamper-proof data storage
- Individual process-screen display with configurable edit boxes
- Flexible through modular hardware
- Password-protected user management
- Five-digit analog-value display
- Control loop and output value monitoring
- Protection type IP66





Last Chance Controllers- Discontinued models Only available until September 2025

JUMO dTRON 304 / 308 / 316

Compact controller with program function (703041)

- 48 x 48, 48 × 96 mm, 96 x 48, 96 × 96 mm formats
- Universal analog measuring input, two programmable binary input
- 2-state / 3-state continuous controller, 3-step continuous controller
- Timer / ramp function
- Program with 8 sections
- Customizable function for math and logic
- 4 limit values are monitored
- Modbus interface, PROFIBUS-DP interface
- Standard configuration: 1x universal measuring input,
- 2 x binary inputs, 2 x relays, 2 x logic output
- Voltage supply for 2-wire transmitter (see data sheet)
- UL approval









JUMO safetyM STB/STW Ex

Safety Temperature Limiter/Monitor According to DIN EN 14597 and ATEX Approval (701150)

Features

- Ignition source monitoring according to EN 13463 IPL 2
- \bullet Temperature monitoring unit for monitoring potential ignition sources according to EN 50495 SIL 2
- Minimum pressure monitoring SIL 2
- Ignition protection type [Ex ia] with intrinsically safe inputs or [Ex e] with increased safety
- 1002D structure for a high degree of process reliability
- Security-related limit value relay (230 V, 3 A)
- Pre-alarm absolute or adjustable as a margin from the limit value
- \bullet Voltage supply range AC 110 to 240 V +10 %/-15 % or AC/DC 20 to 30 V
- Can be configured as safety temperature limiter (STB) or safety temperature monitor (STW)
- Approvals for DIN EN 14597, SIL, PL, ATEX, IECEx, PED
- Optional approval: DNVGL



Part number	Basic Type	Input	Output	Power Supply	Price
00548736	Safety temperature limiter	2x Pt100 3-wire	420mA analog	AC 110240V +10/-15%,4863Hz	\$811.55
00548737	Safety temperature limiter	2x Pt100 3-wire	420mA analog	AC/DC 2030V,4863Hz	\$811.55
PC Interface Cable	Interface				Price
00548742	742 Setup JUMO STB/STW 701150/55 Download 257.exe (30 days Test Version) (73.5 MB)				

JUMO safetyM TB / TW

Temperature limiter and temperature monitor (701160)

- Design width 22.5 mm
- For installation on 35 mm DIN rail
- Approval according to DIN EN 14597, cULus
- Universal measuring input (including standard signal)
- 2 × Pt100 for differential measurement
- Alphanumeric LCD display
- Configurable limiter or monitor
- Temperature monitoring up to 4523 °F (2495 °C)
- Pre-alarm absolute or as a margin from the limit value
- Internal and external unlocking possible
- Configuration with setup program
- UL approval



Part number	Basic Type	Input	Power Supply	Price
00506382	Temperature limiter (inverse)	Pt 100 (3-wire)	AC 110 to 240V +10 / -15 %, 48 to 63Hz	\$495.85
PC Interface cable	Interface			Price
00301315	PC interface with converter RS232/TTL			\$126.47
00456352 PC interface with converter USB/TTL				\$247.41





JUMO LOGOSCREEN 601

Paperless Recorder with Touchscreen (706521)

Features

- 144 × 144 mm format
- 14.5 cm (5.7") TFT color graphics screen (640 × 480 pixel)
- 3 or 6 universal measurement inputs (optional)
- Up to 24 digital inputs (optional)
- 12 digital inputs and outputs (optional)
- 24 external digital and analog inputs via interface
- Up to 2 analog outputs
- Up to 6 customer-specific process screens
- Intuitive touch operation
- PROFINET IO device interface (extra code)
- Integrated web server for online visualization same as on
- Batch report recording
- Limit value monitoring function (24 channels)
- Flow measurement (2 channels, optional)
- 2 counter inputs (up to 12.5 kHz, optional)
- Paperless recording of analog and digital process data

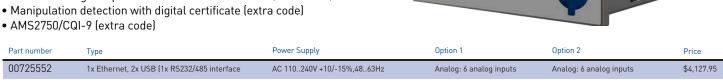


Part number	Туре	Power Supply	Option 1	Option 2	Price
00727738	With software packet	AC 110240V +10/-15%,4863Hz	3 analog, 6 digital inp., 1 analog outp.	3 analog, 6 digital inp., 1 analog outp.	2,838.47

JUMO LOGOSCREEN 700

Highly-Scalable Paperless Recorder (706530)

- Intuitive touch operation
- Up to 3 analog outputs
- Up to 10 customer-specific process screens
- PROFINET IO device interface (extra code)
- Integrated web server for online visualization same as on
- Recording of up to 5 batch reports
- Up to 500 individual texts
- Limit value monitoring function (120 channels)
- Flow measurement (up to 8 channels)
- Up to 8 counter inputs (max. 12.5 kHz)
- User-specific application using structured text (ST code; extra code)
- Automatic data readout via PCA Communication Software PCC
- Data recording compliant with FDA 21 CFR Part 11 (extra code)







JUMO MIDAS Series

Pressure transmitters – universal application (401001)

Features

- Measuring range up to 0 to 1000 psi relative
- Elastomer sealed
- Compact design
- High chemical resistance
- Membrane withstands high mechanical load



Part number	Range	Output	Process connection 1/4	Material	Power supply	Seal	Price
43011693	0 to 25 psi relative	4 to 20mA (2-wire)	- 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43008814	0 to 50 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43011696	0 to 60 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43006736	0 to 100 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43008815	0 to 150 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43008816	0 to 200 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43010669	0 to 250 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43008817	0 to 300 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43008818	0 to 500 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22
43008819	0 to 1000 psi relative	4 to 20mA (2-wire)	1/4 - 18 NPT to EN 837	CrNi (Stainless steel)	DC 10 to 30V	FPM	\$255.22

JUMO dTRANS p20

Process pressure transmitter with display (403025)

- HART® interface
- Optional explosion protection Ex ia according to ATEX, INMETRO, GOST-R
- Linearity: 0.05 %
- Turn down: 1:50
- Simple operation with rotary knob
- Stainless steel housing
- Setup program
- LCD display with bar graph
- Display scaling with a choice of measuring units
- Display of sensor temperature
- Display of minimum and maximum pressures



Part number	Range	Output	Process connection	Material	Power supply	Price
00560711	0 to 4 bar absolute	4 to 20mA (2-wire)	1/2 – 14 NPT	CrNi (stainless steel)	DC 11.5 to 36V	\$1,071.71





JUMO MIDAS C08

OEM basic pressure transmitter (401002)

Features

- Measuring range: 0 to 10 bar relative
- Elastomer sealed
- Compact design
- Long-term stability: < 0.2 %
- New level of quality for the OEM sector
- 60 % quicker device installation with the QUICKON quick-clamp technology
- Temperature compensation range increased by 50 % to -4 to 212 °F (-20 to 100 °C)
- 2.5 times more vibration resistance than the industry standard



Part number	Range	Output	Process connection	Power supply	Material	Seal	Price
00546121	0 bar to 10 bar relative	4 to 20mA (2-wire)	G 1/4 DIN EN 837	DC 8 to 30V	CrNi (Stainless steel)	FPM	\$230.31

JUMO MIDAS S05

OEM universal pressure transmitter (401010)

Features

- Successor model to MIDAS SI (type 401006)
- Measuring range: 0 to 2.5 bar relative pressure
- Silicon sensor with stainless steel separating diaphragm
- Welded measuring system
- Compact design



Part number	Range	Output	Process connection	Power supply	Material	Price
43012486	0 to 2.5 bar relative pressure	4 to 20mA (2-wire)	G 1/4 DIN EN 837	DC 10 to 30V	CrNi (Stainless steel)	\$290.69

JUMO MIDAS DP10

OEM differential pressure transmitter (401050)

- Measuring range: 0 to 600 mbar relative
- Silicon sensor with stainless steel separating diaphragm
- Medium: gaseous, liquid, or low-aggression
- Version with elastomer seal, optional welding
- Compact design
- Parts in contact with media: PBT plastic, option with full stainless steel
- Overload pressure up to 30 bar on one side



Part number	Range	Output	Process connection	Power supply	Material	Seal	Price
43011497	0 to 600 mbar relative	4 to 20mA (2-wire)	2 x G 1/8 DIN EN 837	DC 10 to 30V	PBT	FPM	\$424.51





JUMO dTRANS pH 02 - Compact Multichannel Transmitter/Controller

for pH, redox, ammonia, standard signals, and temperature (202551)

Features

- Display visualization options: large numbers, bar graph or trend display
- Integrated calibration routines: 1, 2, and 3 points
- Math and logic module
- Calibration logbook
- Integrated washing timer to control the cleaning equipment
- 12 integrated user languages
- Setup program features convenient programming and system documentation
- RS422/RS485 interface (option)
- PROFIBUS-DP interface (option)
- Data logger with real-time clock (option)
- Electrode monitoring can be activated
- UL approval



Part number	Format Input	Output	Power supply	Price
00579766	96 x 48 mm2 x binary 1 x analog (compensation) 1 x main (pH, redox, ammonia)	2 relays 1 analog output	AC 110 to 240V +10 / -15 %, 48 to 63 Hz	\$970.44
PC Interface cable	Interface			Price
00301315	PC interface with converter RS232/TTL			\$126.47
00456352	PC interface with converter USB/TTL			\$247.41

JUMO BlackLine CR-EC

Conductive 2-electrode conductivity sensor (202922)

- Inexpensive, compact design with integrated Pt 100
- Can be screwed into pipelines with small nominal width
- Designed as coaxial measuring cell
- Can be used up to approximately 1000 µS/cm



Part number	Cell constant	Measuring insert	Process connection	Electrode material	Fitting length	Electrical connection	Connection cable length	Price
00441398	K = 0.10	1 x Pt100 (2-wire)	1/2 - 14 NPT	CrNi (stainless steel)	40 mm	Fixed cable	5000 mm	\$193.44







JUMO ecoTRANS Lf 03 – Transmitter/Switching Device

for conductivity or resistivity and temperature (202732)

Features

- Displayed units μS/cm, mS/cm, k0hm x cm, M0hm x cm, μmho/cm, mmho/cm
- Two current value outputs for conductivity and process temperature
- Switching output
- USP switching function as per USP<645>
- Selectable temperature compensation natural water EN 27 888, ASTM D 1125-95, linear
- 3-way isolation (input, output and voltage supply are electrically isolated from each other)
- DIN rail mounting
- Calibration timer
- Delivery including calibration certificate



Part number	Input	Output	Power supply	Price
00441865	2 x analog output, 1 x relay	2 x analog	DC 20 to 30 V	\$646.08
PC Interface cable	Interface			Price
00301315	PC interface with converter RS232/TTL			\$126.47
00456352	PC interface with converter USB/TTL			\$247.41

JUMO Ammonia Sensitive Sensor (201040)

Features

- For monitoring ammonia leakage in refrigerating plants
- Special PTFE membrane
- Easy membrane replacement



1 di Chumber	Connector	Titting tengti	Frice
00440655	Screw cap Pg 13.5	120 mm	\$610.67

JUMO tecLine Cl2

Sensor for free chlorine (202630)

- Membrane-covered, amperometric measuring cell with integrated temperature compensation for continuous measurement of a suitable flow-through fitting
- Two electrode principle
- Easy calibration
- Integrated temperature compensation
- Proven measuring system
- Used for drinking water disinfection
- Used for swimming pool disinfection



Part number	Measuring range	Approx. pH range	Temperature range	Pressure range	Output	Power supply	Flow velocity	Flow rate	Accuracy	Material	Price
00401586	0 to 5 mg/L	± 5.5 to 8.0	> 32 to 113 °F > 0 to 45 °C	up to 1 bar	4 to 20mA (2-wire)	12 to 30V DC	± 15 cm/s	± 30 l/h	± 2 %	PVC	\$1,596.42





JUMO digiLine

Intelligent Electronics with Digital Interface or Analog Output for pH/ORP/T (202705)

Features

- High quality industrial electrodes
- Process and industrial applications
- Pressure resistant up to 10 bar
- Additional temperature probe can be integrated
- Different fitting lengths

Part number	Туре	Elec. connect. input	Output	Price
00652283	digiLine pH value	N cable socket	RS-485 Modbus	\$519.27
00652284	digiLine pH value	N cable socket	Current value output, free config.	\$604.25
00646871	digiLine hub			\$243.05

JUMO ecoLine / JUMO BlackLine pH

Combination electrodes (201005/201010)

Features

High quality measuring probes

- Good value for money
- Variable fitting lengths

Part number	Active component	Connector	Fitting Length	Cable length	Price
00417300	UW glass (pH 0 to 12, 23 to 176 °F (0 to 80 °C))	BNC connector	120 mm	2 m	\$163.91

JUMO tecLine pH

Combination electrodes (201020)

- High quality industrial electrodes
- Process and industrial applications
- Pressure resistant up to 10 bar
- Additional temperature probe can be integrated
- Different fitting lengths



Part number	Temperature range	Connector	Fitting Length	Diaphragm	Price
00304030	HT glass (pH 0 to 14, 23 to 275 °F (-5 to 135 °C))	Screw cap Pg 13.5	120 mm	1 x zirconium	\$210.72





JUMO tecLine H202 and PAA

Sensor for hydrogen peroxide and peracetic acid (202636)

Features

- Membrane-covered, amperometric measuring cell with integrated temperature compensation for continuous measurement of hydrogen peroxide in a suitable flow-through fitting
- Detection of peracetic acid or hydrogen peroxide concentration in the mg range
- The membrane is impervious to chemicals and surfactants
- Two electrode principle
- Easy calibration
- Integrated temperature compensation
- Proven measuring system



Part number	Measuring range	Temperature range	Pressure range	Output	Power supply	Flow velocity	Flow rate	Accuracy	Material	Price
00409343	0 to 10000 mg/L	> 32 to 113 °F > 0 to 45 °C	up to 1 bar	4 to 20mA (2-wire)	12 to 30V DC	± 15 cm/s	± 30 l/h	± 2 %	PVC	\$1,913.41

JUMO Technical Buffer and Cleaning Solutions (202950)

These solutions are used to clean and/or calibrate. For pH buffer solutions, various pH levels are available. The typical accuracy is +/-0.02 pH units. Color-coded bottle caps enable easy differentiation. JUMO buffer solutions are traceable to NIST (National Institute of Standards and Technology). The minimum durability and the batch number are specified on the label.



Part number	Туре	Filling quantity	Price
00301072	Technical buffer solution pH 9.27	250 mL	\$28.58
00301073	Redox test solution 468 mV	250 mL	\$24.41
00306215	3-molar KCl solution	250 mL	\$28.58
00307586	Diaphragm cleaner (thiourea solution)	250 mL	\$24.41
00338371	Technical buffer solution pH 7.00	250 mL	\$24.41
00344977	Technical buffer solution pH 4.00	250 mL	\$24.41
00345027	Technical buffer solution pH 10.00	250 mL	\$24.41
00346056	Conductivity calibration solution 1.41 mS/cm	250 mL	\$24.41

General Terms and Conditions



The following terms and conditions govern the sales of all products (the "Products") manufactured by JUMO Process Control, Inc. ("JUMO") or its' Affiliates, (each, a "Seller"), as well as any service relating to such Products if applicable. "Affiliates" as used herein shall mean a business entity now or hereafter controlled by, controlling or under common control with JUMO. These terms and conditions of sale constitute the final, complete, and exclusive agreement between Buyer and Seller relating to the subject matter hereof and supersede all prior or contemporaneous proposals, understandings, representations, warranties, promises and other communications, whether oral or written, unless otherwise specifically agreed to in writing by an authorized representative of Seller. Any term or condition in any order, confirmation or other document furnished by Buyer that is in any way inconsistent herewith is hereby expressly rejected and Seller's acceptance of any offer or order of Buyer is expressly made in reliance of Buyer's assent to all terms and conditions hereof. Buyer's acceptance of delivery of any Products shall constitute Buyer's acceptance of these terms and conditions. In the event of conflict between the terms and conditions set forth herein and any other forms, purchase orders, documents or instruments of the Buyer, the provisions contained herein shall prevail. 1. PRICES

Prices applicable to the Products shall be as listed or quoted by Seller to Buyer and are F.O.B. Seller's U.S. warehouse unless otherwise specified. Seller's prices are subject to change without notice. Stenographic and clerical errors are subject to correction. Prices listed or quoted do not include any present or future federal, state, local, use, excise, transportation or similar taxes or other governmental charges, all of which shall be invoiced to and paid by the Buyer. Any such taxes or governmental charges paid by Seller on Buyer's behalf shall be reimbursed by Buyer on demand.

1.1 PURCHASE ORDER PROCESS; TERMS OF PAYMENT

Buyer shall place orders for the Products to be purchased hereunder by submitting one or more purchase orders to Seller. Each such purchase order is intended for convenience only and shall state the descriptions and quantities of Products being ordered and the requested shipments dates for such Products. In no event shall any terms and conditions set forth on a purchase order submitted by Buyer other than the terms and conditions set forth herein, including, without limitation, any preprinted terms and conditions of Buyer, be binding on Seller. In addition, no purchase order shall be binding on Seller until Seller has accepted such purchase order by written acknowledgement or by shipment of the Products applicable to such purchase order. Orders for the purchase of Products when made by the Buyer shall be considered irrevocable for such Buyer.

The purchase price of the Products shall be payable, without deduction of any kind, within thirty (30) days from the date of invoice, unless otherwise agreed to by Seller in writing. In the event Buyer has a blanket order in place with Seller for the recurring supply of Products over a period of time which is subject to discounted pricing (a "Blanket Order"), Buyer shall be responsible for prompt payment of all discounts received under the given period's Blanket Order, if Buyer has not by that given period's end purchased all items so prespecified under the Buyer's Blanket Order for that period. The period on a Blanket Order shall be one

(1) year unless otherwise specified in such Blanket Order. 1.2 SERVICE CHARGE

Interest at the rate of one and one-half percent (1 1/2%) per month (not to exceed the maximum interest allowable by law) shall be paid on the unpaid balance of any invoice not paid by Buyer within thirty (30) days of the due date thereof. Such interest shall be in addition to the purchase price hereunder. In the event Seller engages a collection agency or commences a legal action or suit to collect the purchase price or any part thereof, Buyer shall, in addition to the full purchase price including interest, be liable for all costs and expenses of such legal action or suit (including reasonable attorney's fees).

1.3 TITLE

Title to and risk of loss or damage to the Products shall pass to Buyer upon delivery of the Products to a carrier for shipment.

2. DELIVERY AND SHIPPING SCHEDULE

Shipment/delivery dates are approximate and are determined from the date as specified in Seller's acceptance of Buyer's order. Seller will make every effort to deliver the Products hereunder in accordance with the requested delivery date, provided that Seller shall not be liable for unavoidable delays in delivery caused indirectly or directly or in any manner by fires, flood, accidents, riots, acts of God, war, governmental interference, embargoes, strikes, labor difficulties, shortage of labor, fuel, power, materials or

supplies, transportation delays or any other cause or causes (whether or not similar in nature to any of those specified herein) either beyond its control or which it cannot remedy without great economic hardship. Seller shall not be liable for any damages or penalties whatsoever whether direct or indirect, special, incidental or consequential, resulting from Seller's failure or the failure of its suppliers to perform or delay in performing unless otherwise agreed in writing by an authorized officer of Seller. Buyer agrees that any delay in delivery shall not affect the validity of any orders or these terms and conditions.

Seller reserves the right to deliver Products in installments unless expressly prohibited in an applicable purchase order. Installment deliveries will be invoiced by Seller at time of shipment unless otherwise agreed to by Seller. Delay in any installment delivery shall not relieve Buyer of its obligation to accept all remaining installment deliveries pursuant to a purchase order.

3. RETURNS

No returns will be accepted by the Seller for any reason without prior authorization from Seller and Buyer's receipt of a "Return Material Authorization Number" from Seller in accordance with Seller's "Return Material Authorization Terms and Conditions", which are incorporated herein and made a part hereof (the "RMA Terms and Conditions").

Products, which have not been used or modified, as determined by Seller, may be returned to Seller for a refund provided that a \$100 or a twenty percent (20%) restocking charge on the applicable purchase price for such Product[s], whichever is greater, shall apply. For controllers, recorders, programmable transmitters and indicators only, such Products may be returned if not permanently modified, for a minimum \$150 or thirty percent (30%) restocking charge. All stock and modified-stock Products shall require Seller's prior authorization to be returned and must be returned within one hundred twenty (120) days from the date of delivery. Products for which the packaging seal has been broken may only be returned if agreed to by Seller, in Seller's sole discretion. Non-stock Products (i.e. "Specialized Products"), Seller's software products and accessories may not be returned under any condition.

4. LIMITED WARRANTY; DISCLAIMERS

Seller warrants that the Products described herein are free from defects in material and workmanship. The foregoing warranty shall extend to the first ultimate user only for the Product for a period of one (1) year from the date of shipment (the "Warranty Period"), provided the Products: (i) have been properly cared for (i.e. the Products have not been subject to misuse, neglect, misapplication etc.); (ii) have been properly installed, operated and maintained in accordance with Seller's instructions, if any; (iii) have not been tampered with or modified without Seller's prior written approval; and (iv) Buyer promptly notifies Seller in writing of any warranty claim during the Warranty Period. The warranty provided by Seller in this Section 4 is the only warranty provided by Seller with respect to the Product(s) sold hereunder, and may be modified or amended only by a written instrument signed by Seller. In the event any Product fails to meet the warranty in this Section 4 during the Warranty Period, Buyer shall return the allegedly defective Products to Seller at Buyer's expense and risk in accordance with the RMA Terms and Conditions. All returned Products shall be returned with shipping prepaid. The Seller's sole obligation under this warranty shall be limited to, at Seller's option, to either repairing or replacing the non-conforming Product or issuing a credit in the amount of the purchase price for the non- conforming Product. Upon written agreement with Buyer, Seller may repair defective Products at Buyer's premises and Buyer shall pay all reasonable expenses incurred by Seller in connection thereto, including, without limitation, Seller's reasonable travel expenses.

Seller's warranty does not apply to Products not manufactured by Seller and do not apply to components furnished by third parties. Any components furnished by third parties are warranted only to the extent of the original manufacturer's warranty and then only if such original manufacturer's warranty is assignable to Buyer.

THE EXPRESS WARRANTY OF SELLER CONTAINED HEREIN IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, WRITTEN, ORAL, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. SELLER'S WARRANTY OBLIGATIONS AND BUYER'S REMEDIES ARE SOLELY AND EXCLUSIVELY AS STATED IN THIS SECTION 4.

Notwithstanding anything to the contrary contained herein, Seller's aggregate liability in connection with the sale or use of

Revised Apr 2018

General Terms and Conditions



Product(s) hereunder, regardless of the form of action giving rise to such liability (whether in contract, tort or otherwise), shall not exceed the aggregate purchase price for Products paid by Buyer to Seller pursuant to an applicable order. IN ADDITION, SELLER SHALL NOT BE LIABLE FOR ANY LOSS, DAMAGE OR INJURY OF ANY NATURE, WHETHER DIRECT, INDIRECT OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF EQUIPMENT OR ANY OTHER EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, OR CLAIMS OF CUSTOMERS OF BUYER FOR SUCH DAMAGES EVEN IF SELLER HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGE OR LOSS BY BUYER OR ANY THIRD PARTY) AND OTHER RISK(S) IN CONNECTION WITH OR RESULTING FROM USE OF THE PRODUCTS. THE FOREGOING STATES THE ENTIRE LIABILITY OF SELLER WITH REGARD TO THE SALE OF PRODUCTS HEREUNDER. THE LIMITATIONS CONTAINED IN THIS SECTION 4 ARE A FUNDAMENTAL PART OF THE BASIS FOR SELLER'S BARGAIN HEREUNDER, AND SELLER WOULD NOT ENTER INTO AN AGREEMENT WITH BUYER ABSENT SUCH LIMITATIONS.

5. CANCELLATION

Seller shall have the right to cancel an order if at any time Buyer does not strictly comply with all the terms and conditions contained herein or if Buyers credit standing is at any time disapproved by Seller, in Seller's reasonable determination, by giving written notice of such decision to Buyer. Orders may be cancelled by Buyer only with the written consent of Seller at Seller's sole discretion and upon reimbursement to Seller for any and all expenses and other losses incurred by Seller as a result of such cancellation, including Seller's actual out of pocket costs, overhead and anticipated profit. Partial cancellation of an order may result in adjustment of prices for the balance of the order.

6. INTELLECTUAL PROPERTY INDEMNITY

Buyer shall immediately inform Seller of any action or proceeding commenced against Buyer or to which Buyer is made a party based on a claim that a Product infringes a United States patent, copyright or trademark and shall cooperate in good faith with Seller in dealing with such claims and in the pursuance of its rights. Buyer shall indemnify and hold Seller harmless from all claims, liabilities, damages, costs and expenses incurred in connection with any action or proceeding commenced against Seller or to which Seller is made a party, relating in any manner to Buyer's purchase, possession or use of the Products, (including but not limited to any claims, damages and expenses asserted or brought against Seller based on the alleged infringement of any intellectual property contributed by Buyer to Seller or improper use of a third party's intellectual property rights by Buyer), except only to the extent it is determined that Seller's gross negligence has directly caused any damages to the party or parties seeking recovery for the same.

7. GENERAL

remain in full force and effect.

No agent, salesman or distributor has any authority to obligate Seller with regard to any terms or conditions not contained herein.

Buyer shall advise Seller immediately of anything contained herein to which Buyer does not assent as a term or condition governing transactions between Buyer and Seller.

The laws of the State of New York shall apply to these terms and conditions and govern all transactions between Buyer and Seller. The federal and state courts located within Onondaga County, New York shall have exclusive jurisdiction to determine any and all actions and proceedings relating to or arising from the terms and conditions set forth herein and the sale of Product(s) hereunder and each party hereby irrevocably consents to the personal and subject matter jurisdiction of such courts with respect thereto. The failure of either party to insist upon strict performance of any provision of the terms and conditions set forth herein, or to exercise any right provided for herein, shall not be deemed a waiver for the future of such provision or right, and no waiver of any provision or right shall affect the right of the waiving party to enforce any other provision or right herein. In the event any provision or provisions herein, or parts thereof, shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired and shall

Additional Terms and Conditions for Specialized Products Specialized Products:

"Specialized Products" are those non-stock Products manufactured or furnished by Seller in accordance with drawings, samples or manufacturing specifications designated by Buyer.

Engineering Charge:

All Specialized Products shall be subject to an engineering charge to be applied or included in the price of such Products, as quoted by Seller. No discounts shall be afforded to an engineering charge.

Order Changes:

Buyer shall notify Seller in writing of requested changes in the quantity, drawings, designs or specifications for any Specialized Products, which are ordered but not yet in the process of manufacture. After receipt of such notice, Seller will inform Buyer of any adjustments to be made in price, delivery schedules, etc. resulting from Buyer's requested changes prior to incorporating requested changes into manufactured Specialized Products. Changes in materials, supplies, labor and/or changes made at the request of

Changes in materials, supplies, labor and/or changes made at the request of the Buyer shall be at the expense of the Buyer. Written notice of any requested changes must be delivered to Seller not less than sixty (60) days prior to scheduled shipping date.

Prototypes:

If Buyer orders a "Prototype" of a Specialized Product, Seller makes no guarantees, warranties or representations with respect to such Prototype. Buyer shall have the duty and sole responsibility to test a Prototype for suitability and acceptance prior to production of Specialized Products that are based on Prototype designs.

Warranty and Indemnification by Buyer:

Buyer hereby represents and warranty to Seller that any Specialized Products when built to Buyer's specifications, do not and will not infringe any rights of any third party, of any kind or nature. Buyer shall indemnify, defend and hold Seller harmless from all claims of any nature asserted or brought against Seller resulting from a breach of Buyer's warranty hereunder.

RETURN MATERIAL AUTHORIZATION ("RMA") TERMS AND CONDITIONS



INSTRUCTIONS:

In an effort to provide better service and expedite repairs, the following terms and conditions shall apply to all requests for repairs of JUMO products (the "Product(s)") from JUMO Process Control, Inc. or its affiliates (each a "Seller"). Please complete the Request for Return Material Authorization form for each Product being returned and fax it back to us. Seller will issue an RMA# upon receipt of the completed form and fax it back to you, where the form must be included with the returned Product. For dead-on-arrival (DOA) and warranty repair, please fax copies of the applicable invoice(s) with serial number(s) for the subject Products.

DOA:

DOA periods are determined by Seller and may change without notice. The current DOA period is three (3) business days after a Product is delivered to Buyer by Seller. If a Product is found to be defective "out of the box" during the DOA period, Seller, at its option, may replace it from stock, if available, or repair it at our expense. Upon receipt of a non-conforming Product that is alleged to be DOA, Seller will evaluate the Product, and if it is determined that any issue with the Product is not the result of a manufacturing defect with the Product, the Buyer will be charged for Seller's evaluation of the Product and/or the repair of the Product. If a Product is found to have a manufacturing defect, Seller, in its sole discretion, may issue a credit for the returned Product or repair or replace it with like product, as reasonably determined by Seller.

WARRANTY:

Products that have been in use beyond the DOA period and alleged to be non-conforming within the one (1) year warranty period for said Product, as further set forth in Seller's General Terms and Conditions of Sale, will likewise be evaluated by Seller and shall be either repaired or replaced, at Seller's option, if found by Seller to be non-conforming in accordance with Seller's warranty. Buyer will be advised of the warranty status of its' Product when the RMA number is issued. Products purchased directly from Seller and/or its authorized distributors are warranted for a period of 1 year from the date of shipment from Seller. Products purchased through OEM's are warranted for a period of 1 year from the date it is shipped to the OEM. Products purchased elsewhere or contained in OEM equipment not purchased through Seller may be subject to original manufacturing warranties. Please refer to Seller's General Terms and Conditions of Sale for the scope of Seller's warranty and disclaimers. Issuance of an RMA does not guarantee that a Product is under warranty.

Products that have had their serial numbers or part numbers removed, altered or are unreadable shall not be accepted for warranty repair and/or replacement.

NO FAULT FOUND:

Products returned as defective, but found to have no problems may incur a NO FAULT FOUND FEE of a minimum of \$150.00. Normal routine user adjustments, maintenance, calibration, cleaning and programming are NOT covered under warranty.

OUT OF WARRANTY:

A minimum diagnostic fee of \$150.00 will be charged for all non-warranty repairs. Buyer will be given a repair estimate before further charges are incurred.

SHIPPING:

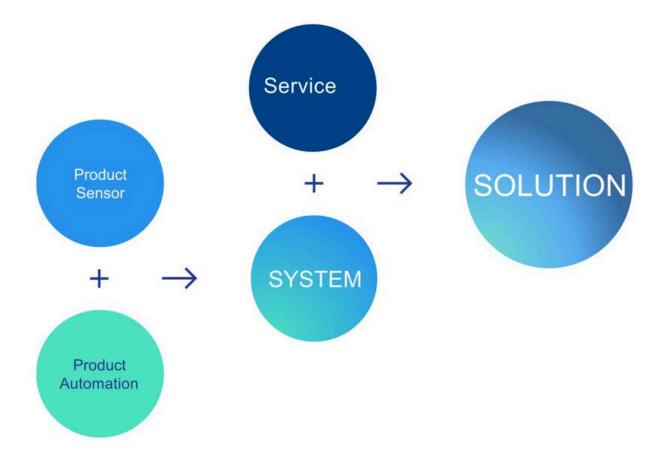
All returns must be shipped by Buyer freight and insurance prepaid. Items that are freight collect, and items without an RMA number will not be accepted. Damage or loss of goods during shipment is the Buyer's responsibility. Please carefully package your return merchandise. Warranty repaired or replaced products will be shipped return freight free via UPS ground delivery. Shipping and handling charges will apply to non-warranty shipments. Air or overnight shipping costs is the responsibility of the Buyer.

NOTE:

All DOA products must be returned complete in original factory condition and packaging, with all boxes, accessories, manuals, warranty cards, cables and anti-static bags. Products must be clean, without scratches or usage marks. Place the manufacturer's box inside a shipping box to avoid damage to the original packaging. Write the RMA number on the shipping label. Do not write on the product box. A 10% re-box and repackaging fee is charged for any manufacturers box that is not returned in re-sellable condition. Seller will be entitled to charge for all other items that are missing, damaged, or do not meet the above conditions, plus a minimum 20% restocking fee to cover labor, processing and shipping costs.

OTHER RIGHTS:

Nothing herein shall otherwise limit any of the standard terms and conditions, including, warranties or limitations, as set forth in Seller's General Terms and Conditions of Sale which shall continue to apply to the Products.



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