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JUMO dTRANS T05

Programlanabilir iki telli transmiter

Form B terminal kafaya montaj ve DIN ray montaj

Kısa açıklama

Transmiterler, RTD sıcaklık problarından, termokupllardan, rezistans transmiterden yada potansiyometrelerden gelen sinyalleri kaydeder. Kullanılan RTD sıcaklık probları ve potansiyometreler, 2 telli, 3 telli yada 4 telli bağlantılı olabilir. Voltaj sinyal aralığı, -100..+1100 mV arasındadır. Seçilen ölçüm girişine göre, doğrusallaştırma kolayca konfigüre edilebilir.

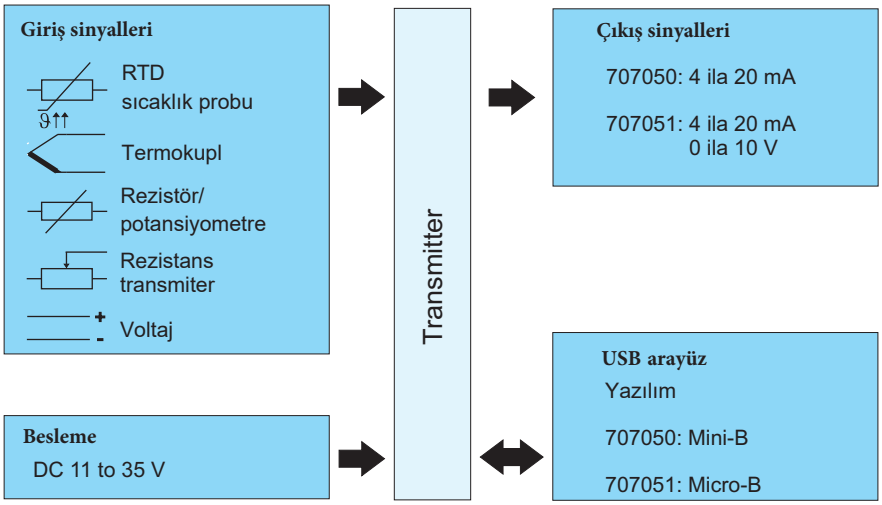
Çıkış sinyalleri, dTRANS T05 B için 4..20 mA, dTRANS T05 T için 4..20 mA yada 0..10 V tur. Ölçüm girişleri ve çıkışları elektriksel izolasyonludur. Her tipte çıkış sinyalini tersine çevirmek mümkündür. Transmiter konfigürasyonu, prob tipine, probun bağlantı şekline, ölçüm aralığına ve linerizasyonuna bağlı olarak, setup programıyla değiştirilebilir. PC bağlantısı ek voltaj gerektirmeksizin USB arayüz ile kurulur. USB arayüz ile, min./max. proses değeri ve çalışma sıcaklıkları transmiter tarafından kaydedilir.

Transmiterin çalışma durumu üzerindeki iki renkli LED ler ile görüntülenir. Yeşil ışın transmiterin arızasız çalıştığını gösterir. Eğer prob kırılması gibi bir arıza merdana gelirse ışık yanıp sönmeye başlar.

Tip 707050 (dTRANS T05 B)

Tip707051 (dTRANS T05 T)

Blok diyagram



Özellikler

- RTD sıcaklık probu, termokupl, rezistör/ potansiyometre, rezistans transmiter ve voltaj için ölçüm girişleri
- Galvanik izolasynlu giriş ve çıkışlar
- Kontrol LED (kırmızı/yeşil)
- Ek voltajsız mini USB kablosu ile konfigürasyon
- Müşteri özel doğrusallaştırma
- Minimum/maksimum proses değerini belirleme
- Sıcaklık sensörleri için opsiyonel olarak sıcaklığı °F görüntüleme
- dTRANS T05 T yi valı terminaller yada yaylı terminaller ile kullanmak mümkündür.

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Teknik bilgiler

Analog giriş

Tüm analog girişler, ikinci dereceden bir dijital filtreyle donatılmıştır (0 ila 10 s arasında ayarlanabilir filtre sabiti) ve saniyede > 2 ölçüm örnekleme hızına sahiptir.

RTD sıcaklık probları

Açıklama	Standart	ITS	Bağlantı tipi	Ölçüm aralığı °C		Ölçüm hassasiyeti[a]
				Min.	Maks.	
Pt100 Pt500 Pt1000 $T_K = 3.85 \times 10^{-3}$ 1/K	IEC 60751:2008	ITS-90	Two/three-wire	-100	200	±0.2 K
			Two/three-wire	-200	850	±0.4 K
			Four-wire	-100	200	±0.1 K
			Four-wire	-200	850	±0.2 K
Pt100 $T_K = 3.917 \times 10^{-3}$ 1/K	GOST 6651-2009 A.2	ITS-90	Two/three-wire	-100	200	±0.2 K
			Two/three-wire	-200	850	±0.4 K
			Four-wire	-100	200	±0.15 K
			Four-wire	-200	850	±0.25 K
Pt50 $T_K = 3.91 \times 10^{-3}$ 1/K			Two/three-wire	-200	850	±0.5 K
			Four-wire	-200	850	±0.3 K
Ni100 $T_K = 6.18 \times 10^{-3}$ 1/K	DIN 43760	IPTS-68	Two/three-wire	-60	250	±0.4 K
			Four-wire	-60	250	±0.2 K
Ni500 $T_K = 6.18 \times 10^{-3}$ 1/K			Two/three-wire	-60	250	±0.4 K
			Four-wire	-60	250	±0.2 K
Ni1000 $T_K = 6.18 \times 10^{-3}$ 1/K			Two/three-wire	-60	250	±0.4 K
			Four-wire	-60	250	±0.2 K
Ni100 $T_K = 6.17 \times 10^{-3}$ 1/K	GOST 6651-2009 A.5	ITS-90	Two/three-wire	-60	180	±0.4 K
			Four-wire	-60	180	±0.2 K
Cu50 $T_K = 4.28 \times 10^{-3}$ 1/K	GOST 6651-2009 A.3	ITS-90	Two/three-wire	-180	200	±0.5 K
			Four-wire	-180	200	±0.3 K
Cu100 $T_K = 4.28 \times 10^{-3}$ 1/K			Two/three-wire	-180	200	±0.4 K
			Four-wire	-180	200	±0.2 K

[a] Hassasiyet değerleri, tüm ölçüm aralığını ifade eder .

Bağlantı tipi	İki telli, üç telli yada dört telli
Sensör hattı rezistansı	
üç ve dört telli bğlantı için	≤ 11 Ω her tel
iki telli bağlantı için	Ölçüm rezistansı + ≤ 22 Ω iç iletken rezistans
Sensör akımı	< 0.3 mA

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Termokupllar

Tasarım	Tip	Standart	ITS	Ölçüm aralığı °C		Ölçüm hassasiyeti[a]
				Min.	Maks.	
Pt13Rh-Pt	R	IEC 584-1	ITS-90	-50	1768	± 0.15 % from +50 °C
Pt10Rh-Pt	S	IEC 584-1	ITS-90	-50	1768	± 0.15 % from +20 °C
Pt30Rh-Pt6Rh	B	IEC 584-1	ITS-90	0	1820	± 0.15 % from +400 °C
Fe-CuNi	J	IEC 584-1	ITS-90	-210	1200	± 0.1 % from -100 °C
Cu-CuNi	T	IEC 584-1	ITS-90	-270	400	± 0.1 % from -150 °C
NiCr-CuNi	E	IEC 584-1	ITS-90	-270	1000	± 0.1 % from -80 °C
NiCr-Ni	K	IEC 584-1	ITS-90	-270	1372	± 0.1 % from -80 °C
NiCrSi-NiSi	N	IEC 584-1	ITS-90	-270	1300	± 0.1 % from -80 °C
Fe-CuNi	L	DIN 43710	IPTS-68	-200	900	± 0.1 %
Cu-CuNi	U	DIN 43710	IPTS-68	-200	600	± 0.1 % from -100 °C
Chromel-Copel (Ni9.5Cr-Cu44Ni)	L	GOST R 8.585-2001	ITS-90	-200	800	± 0.1 % from -80 °C
Chromel-Alumel		GOST R 8.585-2001	ITS-90	-270	1372	± 0.1 % from -80 °C
W5Re-W20Re	A1	GOST R 8.585-2001	ITS-90	0	2500	± 0.15 %
W5Re-W26Re	C	ASTM E230/E230M-11	ITS-90	0	2315	± 0.15 %
W3Re-W25Re	D	ASTM E1751/E1751M-09	ITS-90	0	2315	± 0.25 %
PL II (Platinel[b] II)		ASTM E1751/E1751M-09	ITS-90	0	1395	± 0.15 %

Cold junction	Pt1000 iç yada dış cold junction; sıcaklık ayarlanabilir 0 ila 80 °C
Cold junction hassasiyeti	± 1 K

[a] Hassasiyet değerleri, tüm ölçüm aralığını ifade eder

[b] Platinel Engelhardt Corp'un markasının tescilli markasıdır.

Rezistans transmiter ve rezistör/potansiyometre

Tasarım	Ölçüm aralığı	Ölçüm hassasiyeti
Rezistans transmiter	Up to 10000 Ω	±10 Ω
Rezistör/potansiyometre	≤ 400 Ω	± 400 mΩ
	≥ 400 Ω to ≤ 4000 Ω	± 4 Ω
	> 4000Ω to ≤ 10000Ω	± 10 Ω
Bağlantı tipi	Rezistans transmiter: üç telli bağlantı (A = Start, S = Slider, E = End) Rezistör/potansiyometre: iki telli, üç telli ve dört telli bağlantı	
Sensör yük rezistansı	≤ 11 Ωher hat için iki telli, üç telli ve dört telli bağlantı	

Direkt voltaj

Tasarım	Ölçüm aralığı	Doğruluk[a]	Giriş rezistansı
mV üretimi için giriş	-100 to 1100 mV	±0.05 %	$R_E \geq 1$ MΩ

[a] Doğruluk değerleri, tam ölçüm aralığını ifade eder.

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Ölçüm devresi izleme

	Tip 707050	**Tip 707051**
Aralık dışı-alt	3,8 mA'ya kadar doğrusal düşüş (NAMUR tavsiyesi 43'e göre)	3,8 mA'ya kadar doğrusal düşüş (NAMUR tavsiyesi 43'e göre) -0,12 V'a kadar doğrusal düşüş
Aralık dışı-üst	20,5 mA'ya kadar doğrusal düşüş (NAMUR tavsiyesi 43'e göre)	20,5 mA'ya kadar doğrusal düşüş (NAMUR tavsiyesi 43'e göre) 10,31 V'a kadar doğrusal düşüş
Prob kısa devre/prob ve açık devre	RTD sıcaklık probu: (konfigüre edilebilir) ≤ 3.6 mA yada ≥ 21.7 mA Yada serbest ayar: 3.6 up to 23 mA	RTD sıcaklık probu: (konfigüre edilebilir) ≤ 3.6 mA yada ≥ 21.7 mA Yada serbest ayar: 3.6 up to 23 mA
		≤ -0.2 V or ≥11.0 V Or free setting: -0.25 up to +11.875 V
	Termokupl: (konfigüre edilebilir)[a] ≤ 3.6 mA yada ≥21.7 mA Yada serbest ayar: 3.6 up to 23 mA	Termokupl (konfigüre edilebilir)[a] ≤ 3.6 mA yada 21.7 mA yada serbest ayar: 3.6 up to 23 mA
		≤ -0.2 V yada ≥11.0 V Yada serbest ayar: -0.25 up to +11.875 V
Prob kısa devresi veya prob kopması durumunda akım sınırlaması	≤ 23 mA	

[a] Termokupllar ve mV jeneratörler için bir prob kısa devre tespiti mümkün değildir.

Çıkış

	Tip 707050	**Tip 707051**
Çıkış sinyali	Yükten bağımsız doğru akım: Serbest ayar : 4 to 20 mA or 20 to 4 mA	Yükten bağımsız doğru akım: Serbest ayar : 4 to 20 mA or 20 to 4 mA
		Voltaj sinyali: Serbest ayar 0 to 10 V or 10 to 0 V
Elektriksel izolasyon Test voltajı	Giriş ve çıkış arasında: Û = 3.75 kV/50 Hz	Giriş ve çıkış arasında: Û = 1.875 kV/50 Hz
İletim davranışı	Lineer, sıcaklık lineer Müşteri özel Çıkış sinyalinin tersine çevrilmesi	
Adım cevabı 0 to 100 %	< 2 s (0 s filtre sabiti)	
Açma gecikmesi	5 s (besleme gerilimi uygulandıktan sonra doğru ölçülen değer)	
	Akım çıkışı	
Yük (R_b)	$R_b = (U_b - 11\ V) \div 0.022\ A$	
Yük hatası	≤ ±0.02 %/100 Ω	
Kalibrasyon koşulları/doğruluk	DC 24 V yaklaşık 22 °C/±0.05 %[a]	
	Voltaj çıkışı	
Yük rezistansı	≥ 2 kΩ	
Yük etkisi	± 15 mV	
Artık dalgalanma	± 1 % referring to 10 V, 0 to 90 kHz	
Kalibrasyon koşulları/doğruluk	DC 24 V yaklaşık 22 °C/±0.05 %[b]	

[a] Tüm özellikler, 20 mA'lik ölçüm aralığı son değerine ilişkindir.

[b] Tüm özellikler, 10 V'luk ölçüm aralığı son değerine ilişkindir.

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	Type 707050	**Type 707051**
IP protection type		
In terminal head, form B	IP54/IP65 (depending on the version)	
Open assembly	IP00	
On DIN-rail		IP20

[a] All specifications refer to the measuring range end value of 20 mA or 10 V.

[b] Under calibration conditions.

[c] % refers to the set measuring span. The greater value of the long-term stability applies.

Case

	Type 707050	**Type 707051**
Material	Polycarbonate UL 94 V2 (grouted)	Polybutylene terephthalate UL 94 V0
Terminal type	Screw terminals:	Screw terminals:
Wire type	Rigid and flexible wires ≤ 1.75 mm^2; Max. torque 0.6 Nm	Rigid and flexible wires 0.2 to 2.5 mm^2 AWG/kcmil min. 26, max. 12 Stripping length 12 mm Torque 0.5 to 0.6 Nm
		Spring-cage terminals Rigid and flexible wires 0.2 to 2.5 mm^2 AWG/kcmil min. 26, max. 12 Stripping length 8 mm
Assembly type	In terminal head, form B (DIN EN 50446); In the surface-mounted case (see accessories); In the control cabinet (mounting element required)	On DIN rail TH 35-7.5 Or TH 35-15 (DIN EN 60715);
Installation position	Any	
Weight	~ 35 g	~ 50 g

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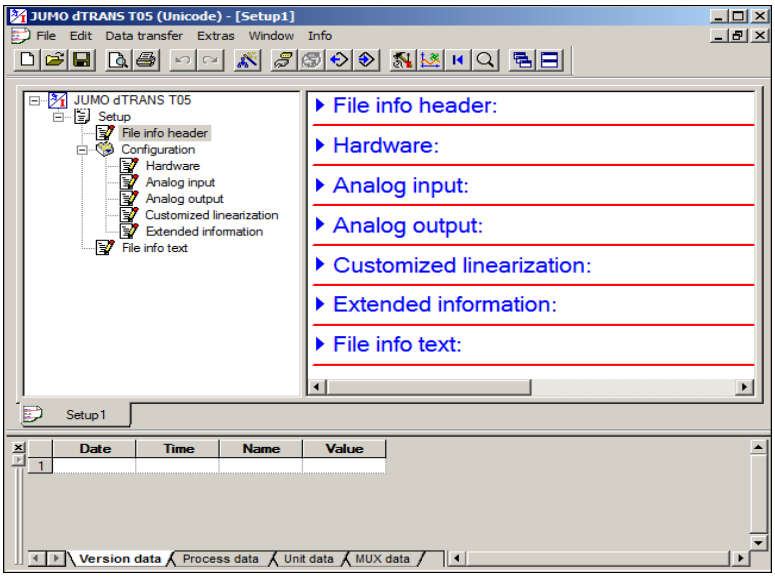
Setup program

The transmitter is configured on the PC with the setup program. The connection between transmitter and PC is established via a USB cable. The transmitter interface is a USB port of the Mini-B type (707050) or of the Micro-B type (707051). It supports standard 2.0 "Full-speed". Once configuration of the transmitter has been completed make sure that the attached hinged-on lid is back on the transmitter's USB interface.



Configurable parameters

Sensor type	
Connection type two, three, or four-wire circuit for RTD temperature probe or resistance/potentiometer	
Linearization	
Customer-specific linearization	
Noise suppression	
Sensor factor for thermocouple / RTD temperature probe	
Lead wire resistance for two-wire circuit	
External or internal cold junction for thermocouple	
Scaling	
Digital filter	
Offset	
Unit	
Behavior in the event of a probe break/short-circuit	
Output signal increasing or decreasing (reversion)	
Output functions, current Type 705050 and type 705051	4 to 20 mA 4 to 20 mA scalable (start/end) Constant current source
Output functions, voltage Only type 705051	0 to 10 V 0 to 10 V scalable (start/end) Constant voltage source
TAG number (10-digit) and description (20-digit)	
Installation date	
Version, process, and device data of the transmitter can be displayed	

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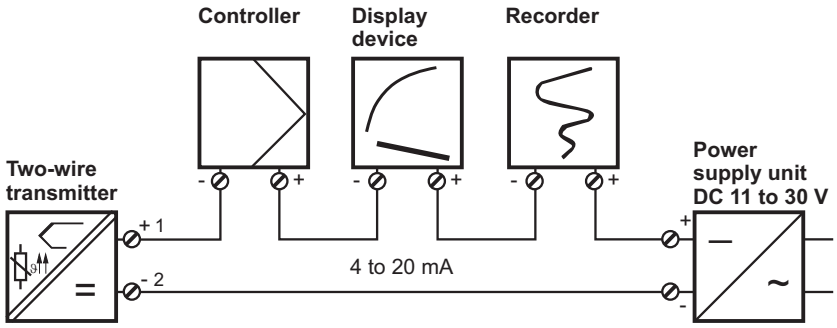
Hardware and software requirements

A PC with USB interface is required to operate the setup program. Details about supported operating systems (Microsoft® Windows®), required hard disk drive space, and memory can be found under information about the setup program on the manufacturer's website (search for 707050, in the search results click the link to the product, go to software, and look for further information about the setup program).

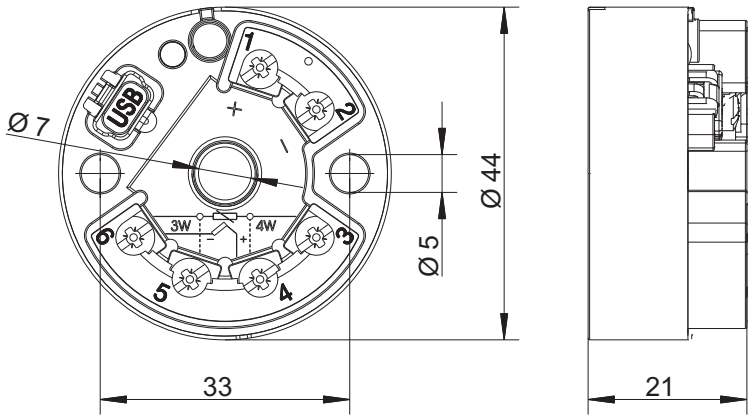
Connection diagram

The connection diagram in the data sheet provides preliminary information about the connection possibilities. Only use the operating manual for the electrical connection. The knowledge and the correct technical execution of the safety information/instructions contained in these documents are a prerequisite for installation, electrical connection, and startup as well as for safety during operation.

Connection example dTRANS T05 B



Terminal assignment and dimensions (mm) dTRANS T05 B



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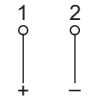
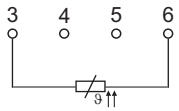
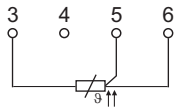
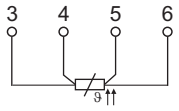
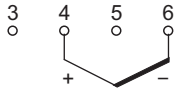
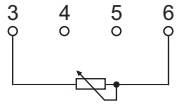
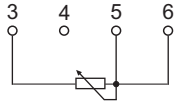
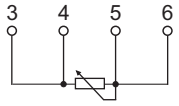
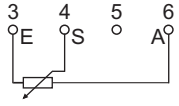
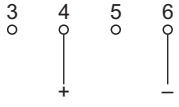
Type 707050		
Connection for	**Terminal assignment**	
Voltage supply Type 707050 DC 11 to 35 V Current output 4 to 20 mA	$R_B = (U_b - 11\ V) \div 22\ mA$ R_B = Load resistance U_b = Voltage supply	
Analog inputs		
RTD temperature probe two-wire circuit	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
RTD temperature probe three-wire circuit (3W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
RTD temperature probe four-wire circuit (4W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Thermocouple		
Resistor/potentiometer two-wire circuit	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Resistor/potentiometer three-wire circuit (3W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Resistor/potentiometer four-wire circuit (4W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Resistance transmitter	E = End S = Slider A = Start	
Voltage 0 to 1 V		
Interface		
USB device	Mini-B, standard (5-pin)	

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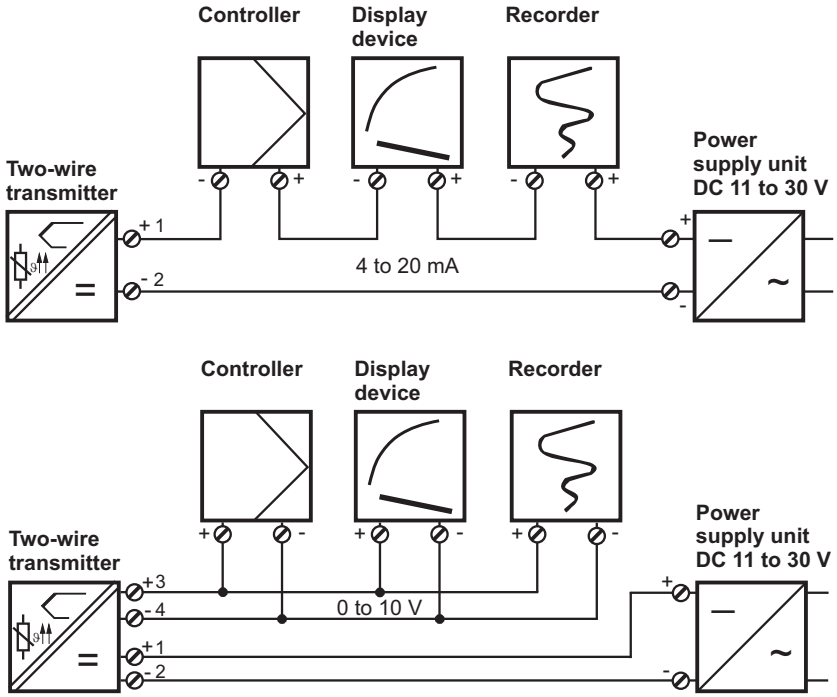
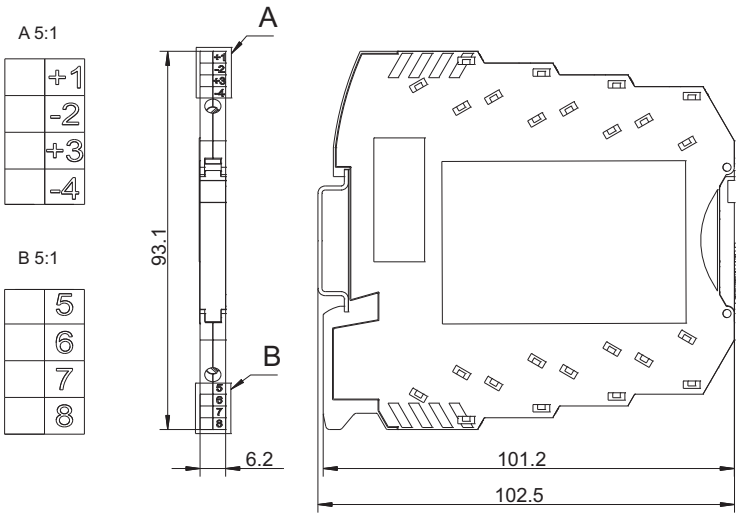
Connection example dTRANS T05 T



Connection assignment and dimensions (mm) dTRANS T05 T



This figure shows type 707051 installed on a DIN rail TH 35-7.5. The specifications concerning dimensions only valid for the installation on this DIN rail and change accordingly if a DIN rail TH 35-15 is used.

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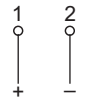
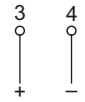
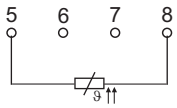
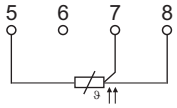
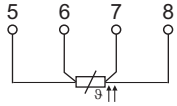
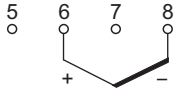
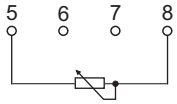
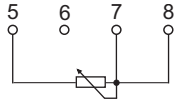
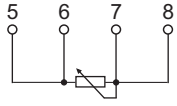
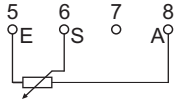
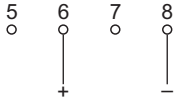
Type 707051		
Connection for	**Terminal assignment**	
Voltage supply Type 707051 DC 11 to 35 V Current output 4 to 20 mA	$R_B = (U_b - 11\ V) \div 22\ mA$ R_B = Load resistance U_b = Voltage supply	
Voltage output 0 to 10 V		
Analog inputs		
RTD temperature probe two-wire circuit	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
RTD temperature probe three-wire circuit (3W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
RTD temperature probe four-wire circuit (4W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Thermocouple		
Resistor/potentiometer two-wire circuit	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Resistor/potentiometer three-wire circuit (3W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Resistor/potentiometer four-wire circuit (4W)	$R_L \leq 11\ \Omega$ R_L = Lead resistance per wire	
Resistance transmitter	E = End S = Slider A = Start	
Voltage 0 to 1 V		
Interface		
USB device	Micro-B, standard (5-pin)	

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Order details

			(1)	**Basic type**
		707050		dTRANS T05 B – Two-wire transmitter for installation in terminal head, form B
		707051		dTRANS T05 T – Two-wire transmitter for mounting on DIN-rail
			(2)	**Configuration**
x	x	8		Factory-set (0 to 100 °C, Pt100 three-wire circuit, 4 to 20 mA)
x	x	9		Customer-specific setting
			(3)	**Electrical connection type**
x	x	06		Screw terminals
	x	07		Spring-cage terminals

	(1)		(2)		(3)
Order code		/		-	
Order example	707050	/	8	-	06

Scope of delivery

1 transmitter in the version ordered
For type 707050: including fastening material (2 screws, 2 pressure springs, and 2 retaining washers)
1 operating manual

Accessories

Description	**Part no.**
Setup program on CD-ROM, multilingual	00574959
USB cable, A-connector to Mini-B connector, length 3 m, for type 707050	00506252
USB cable, A-connector to Micro-B connector, length 3 m, for type 707051	00616250
USB cable set (mini/micro USB), length 3 m	00639360
Mounting element for mounting of type 707050 on mounting rail	00352463
Screw-on end clamp for mounting rail	00528648