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JUMO dTRANS T09

Cable transmitter for temperature

Brief description

The cable transmitter for Pt100 or Pt1000 sensors is ideal for simple retrofitting of plants. You can choose between analog output (4 to 20 mA) or IO-Link interface.

The cable transmitter's high level of vibration and shock resistance makes it reliable and durable. The connection is made on the input and output side via M12 plug connectors.

JUMO dTRANS T09 AS: cable transmitter for temperature with analog output (707090)

JUMO dTRANS T09 DS: cable transmitter for temperature with IO-Link interface (707091)

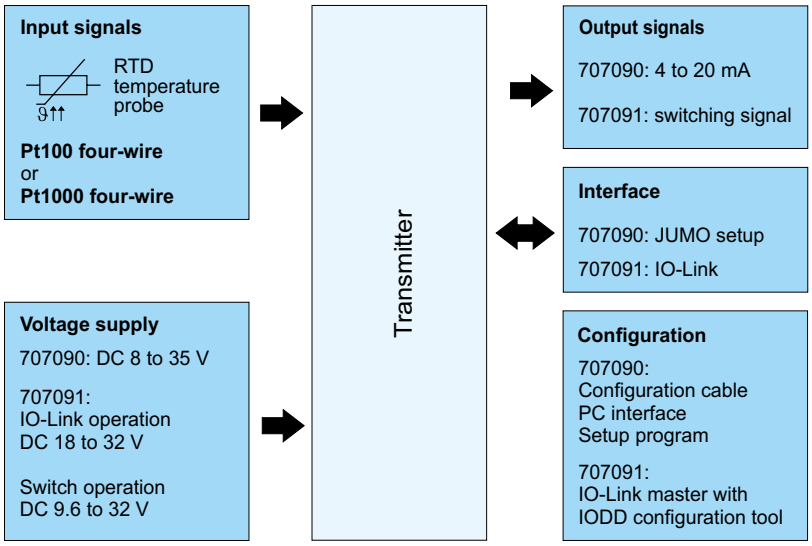


Type 707090, JUMO dTRANS T09 AS
Cable transmitter for temperature with analog output 4 to 20 mA



Type 707091, JUMO dTRANS T09 DS
Cable transmitter for temperature with IO-Link interface

Block diagram



Special features

- Efficient retrofitting and simple digitization of plants with only a short plant downtime
- Analog output
  or IO-Link interface
- Reduced mounting and commissioning costs (Plug and Play)
- Stainless steel case
  Protection type: IP66, IP67, and IP69
- High degree of vibration and shock resistance
- Pre-assembled lines (accessories)

Approvals

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Approvals

c UL us	Designation	UL
	Testing agency	-
	Certificate no.	2022-07-27-E201387
	Inspection basis	UL 61010-1, 3 Ed. Mai 2012 revised 19. Juli 2019 und CAN/CSA-C22.2 No. 61010-1 (2012-05). 3. Ed. with revision through 2018-11
	Valid for	Type 707090, 707091

Technical data

JUMO dTRANS T09 AS, type 707090 (two-wire 4 to 20 mA)

Input

RTD temperature probe	Pt100 (DIN EN 60751:2009 / IEC 60751:2008) in four-wire circuit or Pt1000 (DIN EN 60751:2009 / IEC 60751:2008) in four-wire circuit[a]		
Measuring range	-50 to +260 °C		
Smallest measuring span	10 K		
Sampling rate	1 measurement per second		
Input filter	Digital filter 1st order, filter constant can be set		
	Calibration accuracy of the electronic components	**Temperature influence of the electronic components**	**Measuring current**
Pt100	0.2 K or 0.13 %[b,c]	≤ ±(15 ppm/K × [measuring range end value + 200] + 50 ppm/K × set measuring range) × Δϑ[d]	≤ 600 µA
Pt1000	0.1 K or 0.08 %[b,c]		≤ 105 µA
Sensor line resistance	≤ 11 Ω per line		

[a] If feature Pt100 is selected, the connection of a Pt1000 sensor is not possible. Likewise, if feature Pt1000 is selected, the connection of a Pt100 sensor is not possible. See order details.

[b] Information provided as a % relates to the measuring range. The greater value is valid.

[c] The tolerance of the temperature sensor must be added to ensure the measuring accuracy of the transmitter.

[d] $\Delta\vartheta$ = deviation of the ambient temperature from the reference temperature (25 °C).

Measuring circuit monitoring

Underrange	Linear drop up to 3.8 mA (according to NAMUR recommendation 43)
Overrange	Linear drop up to 20.5 mA (according to NAMUR recommendation 43)
Probe short-circuit/ probe and line break	≤ 3.6 mA or ≥ 21.0 mA (configurable)
Current limiting in the event of a probe short circuit or probe break	≤ 25 mA

Output

Output signal	Load-independent direct current 4 to 20 mA
Transmission behavior	Temperature linear
Maximum burden (R_B)	$R_B = (U_b - 8\ V) \div 23\ mA$, max. 600 Ω
Burden influence	≤ ±0.02 % per 100 Ω[a]
Voltage supply influence	≤ ±0.01 % per V deviation from 24 V[a]
Setting time after switch-on or reset	≤ 5 s

[a] % specifications refer to the measuring range end value of 20 mA.

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Electrical data

Voltage supply (U_b)	DC 8 to 35 V (pin 1 = +, pin 3 = -) The transmitter is designed only for operation in SELV and PELV circuits in accordance with DIN EN 50178.
Current consumption	≤ 25 mA (incl. load)
Electrical safety	Protection rating III according to DIN EN 61140
Galvanic isolation	No galvanic isolation between sensor and output
Reverse voltage protection	Yes
Requirement	The auxiliary energy of the cable transmitter must meet SELV requirements. Furthermore, the device must be equipped with an electrical circuit that meets the requirements of EN 61010-1 with regard to "Limited-energy circuits".

JUMO dTRANS T09 DS, type 707091 (IO-Link interface)

Input

RTD temperature probe	Pt100 (DIN EN 60751:2009 / IEC 60751:2008) in four-wire circuit or Pt1000 (DIN EN 60751:2009 / IEC 60751:2008) in four-wire circuit[a]		
Measuring range	-50 to +260 °C		
Sampling rate	160 ms		
Input filter	Digital filter 2nd order, filter constant can be set		
	Calibration accuracy of the electronic components	**Temperature influence of the electronic components**	**Measuring current**
Pt100	≤ ±0.08 %[b,c]	≤ 0.003 % pro K[d]	≤ 1 mA
Pt1000	≤ ±0.1 %[b,c]	≤ 0.0025 % pro K[d]	≤ 500 µA
Sensor line resistance	≤ 11 Ω per line		
Galvanic isolation	No galvanic isolation between sensor and output		

[a] If feature Pt100 is selected, the connection of a Pt1000 sensor is not possible. Likewise, if feature Pt1000 is selected, the connection of a Pt100 sensor is not possible. See order details.

[b] Information provided as a % relates to the measuring range of 310 K.

[c] The tolerance of the temperature sensor must be added to ensure the measuring accuracy of the transmitter.

[d] Deviation of the ambient temperature from the reference temperature (25 °C).

Measuring circuit monitoring

Process data invalid	IO-Link event configurable; appears in the process value as an error value
Overrange	
Underrange	
Device is defective	

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Output

Number	1 output in IO-Link operation (output signal according to IO-Link communication standard version 1.1, see section "Interface", Page 4) 2 outputs for switch operation (SIO mode; SIO = standard IO)
Switching functions configurable	Hysteresis function or window function Normally closed contact or normally open contact Output p-switching (PNP) or n-switching (NPN) Switch-on and switch-off delay
Switching current	≤100 mA per output
Voltage drop at switching transistor	≤ 2 V
Short-circuit proof	Yes (clocked)
Reverse polarity protected	Yes
Current limiting	Yes
Hysteresis	
For hysteresis function	Configurable
For window function	Fixed setting (symmetrical; ±0.25 % of the measuring range)
Switch-on, switch-off delay	0 to 100 s

Interface

Communication interface	IO-Link device V 1.1 (downward compatible to V 1.0)
Communication mode (data transfer rate)	COM3 (230.4 kBaud)
IO Device Description (IODD)	The IODD can be localized and downloaded on the JUMO website in the product area for this device or at www.io-link.com with the "IODDfinder".
Max. line length acc. to IO-Link standard	20 m
Min. cycle time	2 ms
Output mode	
Switching output type	Transistor switching output can be configured as NPN or PNP
Short-circuit proof	Yes (clocked)
Resistant to overload	Yes
Protected against polarity reversal	Yes
Ampacity of the switching outputs	100 mA in each case
Voltage drop of the switching outputs	Max. 2 V in each case

Electrical data

Voltage supply	
In IO-Link operation	DC 18 to 32 V
In switch operation	DC 9.6 to 32 V
Nominal voltage	DC 24 V
	The transmitter is designed only for operation in SELV and PELV circuits in accordance with DIN EN 50178.
Current consumption	
In idle mode	≤ 12 mA
In IO-Link operation	≤ 20 mA
In switch operation	≤ 200 mA (with 2 switching outputs)
Electrical safety	Protection rating III according to DIN EN 61140
Intended use	Temperature measurement in industrial plants
Requirement	The auxiliary energy of the cable transmitter must meet SELV requirements. Furthermore, the device must be equipped with an electrical circuit that meets the requirements of EN 61010-1 with regard to "Limited-energy circuits".

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JUMO dTRANS T09 AS and DS

General Information

Electrical connection (input side)	Machine connector M12 × 1, 4-pole, according to DIN EN 61076-2-101 (socket version with union nut)
Electrical connection (output side)	Machine connector M12 × 1, 4-pole, according to DIN EN 61076-2-101 (pin version)
Housing	Stainless steel
Protection type with mating connector	IP66, IP67, and IP69 according to DIN EN 60529
Installation position	Any
Weight	JUMO dTRANS T09 AS, type 707090 = ca. 35 g JUMO dTRANS T09 DS, type 707091 = ca. 43 g
Potential equalization	
Functional bonding conductor FB[a]	⏚

[a] The temperature probe must be connected to the plant's potential equalization system via the process connection. Suitable shielded lines must also be used to ensure continuous shielding.

Environmental influences

Transmitter

Ambient temperature	-40 to +85 °C
Storage temperature	-40 to +85 °C
Resistance to climatic conditions	
During operation	≤ 100 % relative humidity without condensation on device outer case
During storage	≤ 90 % relative humidity without condensation
Climate class	3K7 according to DIN EN 60721-3-3
Vibration strength	10 g at 10 to 2 000 Hz according to DIN EN 60068-2-6
Shock resistance	20 g for 11 ms according to DIN EN 60068-2-27 50 g for 1 ms according to DIN EN 60068-2-27
Calibration/reference conditions	DC 24 V at 25 °C ±5 °C (77 °F ±9 °F)
Electromagnetic compatibility (EMC)	DIN EN 61326
Interference emission	Class B[a]
Interference immunity	Industrial requirement

[a] The product is suitable for industrial use as well as for households and small businesses.

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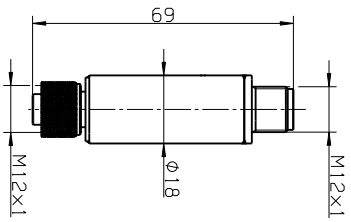
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Dimensions

Basic types

Type 707090,
JUMO dTRANS T09 AS



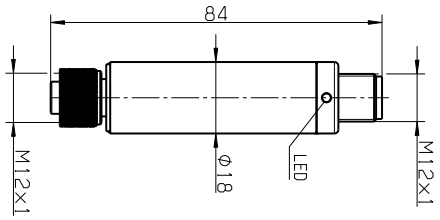
Cable transmitter for temperature with analog output 4 to 20 mA



*

* Figure with connecting cable (not included in scope of delivery, see accessories)

Type 707091,
JUMO dTRANS T09 DS



Cable transmitter for temperature with IO-Link interface



*

* Figure with connection line (not included in scope of delivery, see accessories)

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Connection diagram

The connection diagram in the data sheet provides information on product selection.

For the electrical connection, only use the installation instructions or the operating manual.

NOTE!

When using the device with UL approval, the user must make sure that the accessory he uses is also approved for a UL application (e. g. cable with UL approval AVLV2/8 and/or cable with UL approval
CYJV/7 or CYJV/8 or PVVA/7 or PVVA2/8, in each case approved for ambient temperatures > 90 °C).

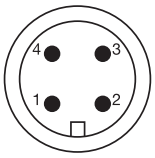
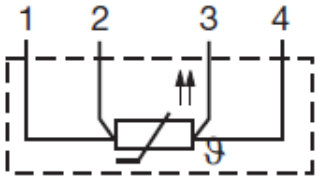
Input
M12 plug connector
(A-coded, socket)



Output
M12 plug connector,
(A-coded, pin)

Input

RTD temperature probe

Electrical connection	M12, A-coded, socket, 4-pole according to DIN EN 61076-2-101	Terminal assignment
RTD temperature probe in four-wire circuit	 Top view of the M12 plug connector from the associated RTD temperature probe!	

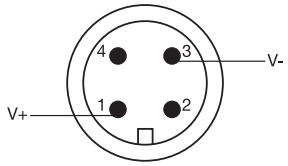
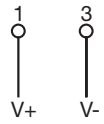
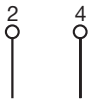
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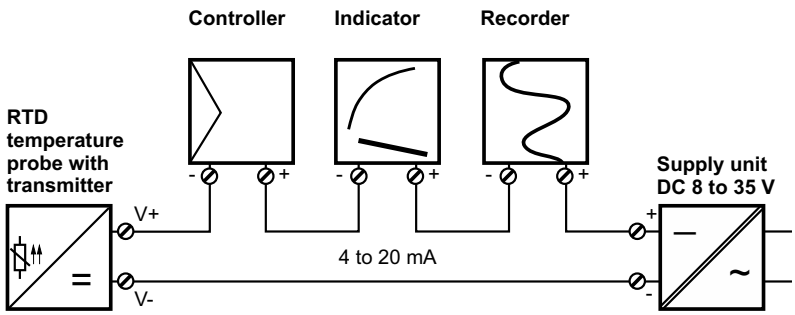
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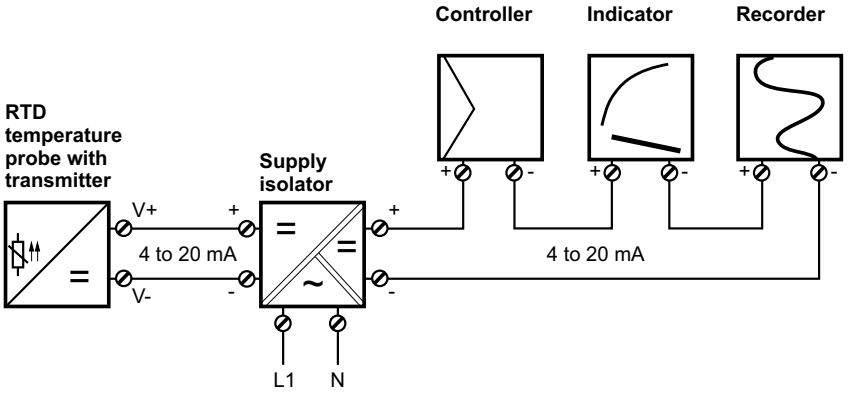
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Output

JUMO dTRANS T09 AS, type 707090 (two-wire 4 to 20 mA)

Machine connector M12 × 1, 4-pole, according to DIN EN 61076-2-101 (A-coded, pin)	**Electrical connection**	**Terminal assignment**
	Voltage supply DC 8 to 35 V  Current output 4 to 20 mA 	
Warning: do not connect pin 2 and pin 4 to voltage!	Setup communication via special configuration line (see accessories) (only for configuration – continuous operation is not admissible)	

Connection example with power supply unit	

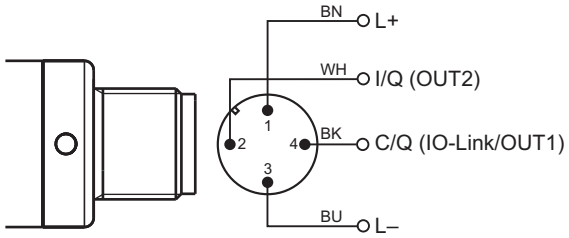
Connecting example with supply isolator	

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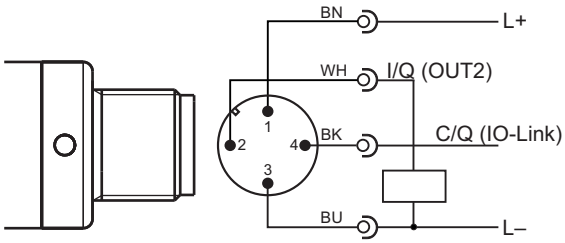
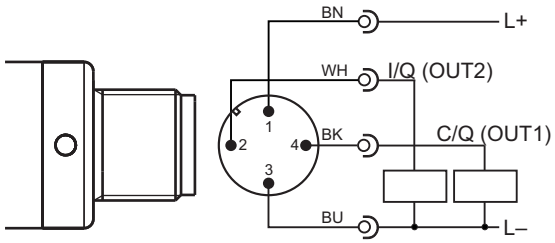
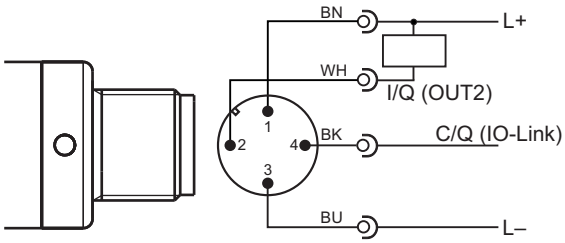
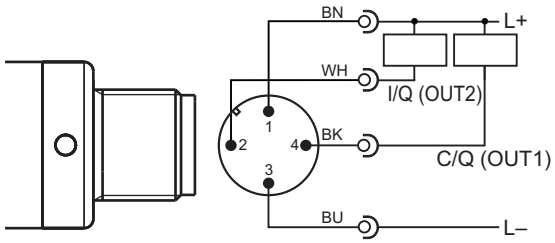
JUMO dTRANS T09 DS, type 707091 (IO-Link interface)

Terminal assignment		
Switch operation		
Voltage supply[a] DC 9.6 to 32 V	1 BN (brown)[b] 3 BU (blue)	L+ L-
Switching output 1	4 BK (black)	C/Q = OUT1
Switching output 2	2 WH (white)	I/Q = OUT2
IO-Link operation		
Voltage supply[a] DC 18 to 32 V	1 BN (brown) 3 BU (blue)	L+ L-
IO-Link	4 BK (black)	C/Q = IO-Link
Switching output 2	2 WH (white)	I/Q = OUT2

[a] The auxiliary energy of the transmitter must meet SELV requirements. Optionally, an energy-limited electrical circuit according to DIN EN 61010-1 can be used.

[b] The color coding is **only** valid for A-coded standard cables!

Connection example

IO-Link operation with 1 switching output	**Switch operation with 2 switching outputs**
p-switching (PNP)	p-switching (PNP)
	
n-switching (NPN)	n-switching (NPN)
	

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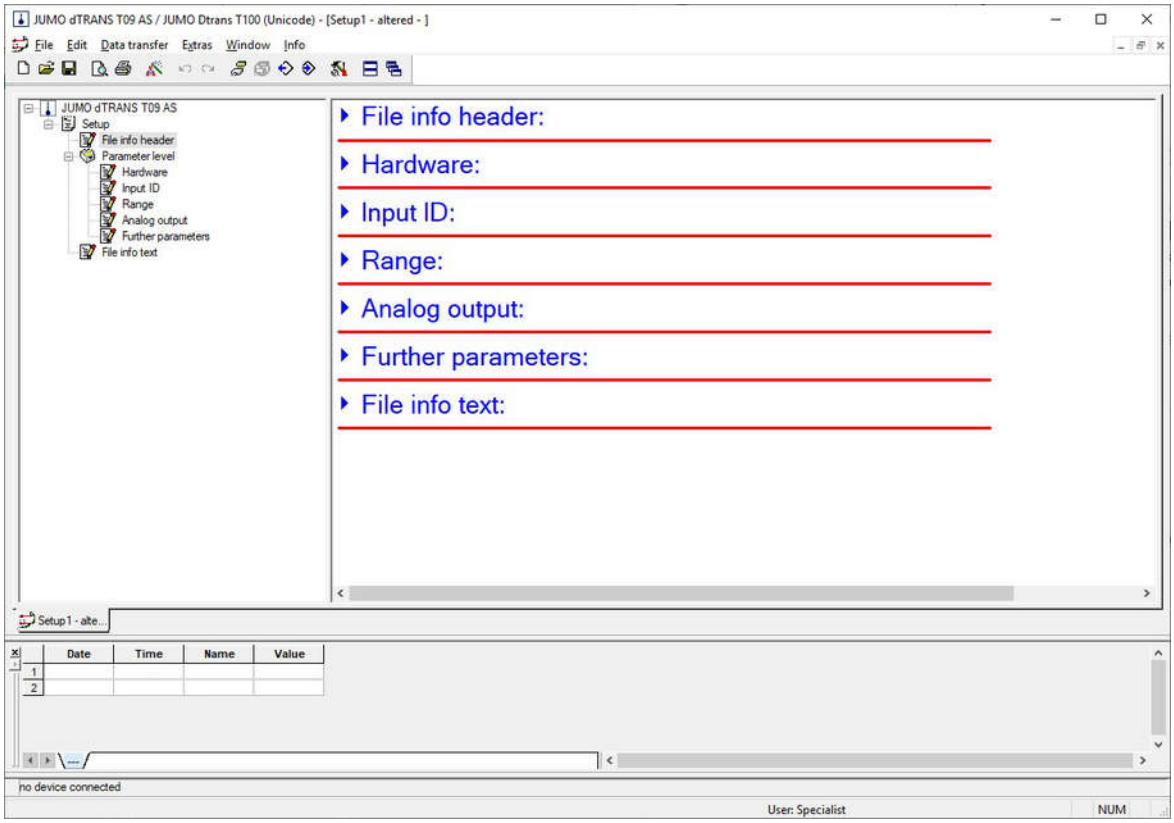
Setup program

JUMO dTRANS T09 AS, type 707090 (two-wire 4 to 20 mA)

The setup program is used for configuring the transmitter using a PC.
For this purpose the following is required:

- Please only use the configuration line, 4-pole with connector and socket M12 × 1, and Western plug RJ-45 with part no. 00484692.
- PVC connecting cable, length 2 000 mm
- PC interface with USB/TTL converter
- and USB line

The transmitter must be connected to a voltage supply for configuration. If no power supply unit or supply isolator is available, it can also be supplied using a 9 V block battery.



Configurable parameters

Measurement point detection	TAG number	Up to 10 characters
Measuring range configurable in °C/°F	• Offset	Depending on the selected measuring range, **0 °C**
	• Measuring range start	-50 to **0** to 260 °C
	• Measuring range end	-50 to **100** to 260 °C
Analog output	• Reversion of the output	**4 to 20 mA**, 20 to 4 mA
	• Signal for probe break/short-circuit	**> 21 mA**, < 3.8 mA
Other parameters	• Filter time constant	0 to **0.1** to 125 s
	• Unit	**°C**, °F

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Areas of application

JUMO dTRANS T09, cable transmitter for temperature



Connection
Directly or via cable



- JUMO dicoTEMP 100 (type 608740)
- All RTD temperature probes with M12 connectors
- JUMO Dtrans T100 without electronic components (type 902815)
- JUMO VIBROtemp with M12 connector (type 902040)
- RTD temperature probes with connecting line
- and more

Application options:



Type 608740



Type 902815



Type 902040

Order details

	(1)	**Basic type**
707090		JUMO dTRANS T09 AS – Cable transmitter for temperature with analog output of 4 to 20 mA
707091		JUMO dTRANS T09 DS – Cable transmitter for temperature with IO-Link interface
	(2)	**Configuration**
8		Default setting[a]
9		Customer-specific setting
	(3)	**Measurement input**[b]
1011		1× Pt100 in four-wire circuit
1013		1× Pt1000 in four-wire circuit
	(4)	**Extra codes**
061		With UL approval





[a] In the JUMO dTRANS T09 AS version the output is scaled to 0 to 100 °C per default. In the JUMO dTRANS T09 DS version the output is not scalable (fixed setting at -50 to +260 °C).
⇨ For an overview of the default configuration, see "Configurable parameters", Page 10.

[b] If feature Pt100 is selected, the connection of a Pt1000 sensor is not possible. Likewise, if feature Pt1000 is selected, the connection of a Pt100 sensor is not possible.

	(1)		(2)		(3)		(4)
Order code		/		-		/	
Order example	707090	/	8	-	1011	/	061

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Accessories

General Information

Designation			Part no.
Connecting cable (input side)	M12 connecting cable (PUR), 5-pole (shielded)	500 mm	00638312
		1 500 mm	00638313
Connecting cable (output side)	Connecting cable (PVC), with socket M12 × 1, 4-pole, 2000 mm		00404585
Cable socket M12 × 1 for self-assembly (output side)	straight, without connecting cable, 5-pole		00419130
	angled, without connecting cable, 5-pole		00419133

JUMO dTRANS T09 AS, type 707090

Designation		Part no.
Required configuration tools:	Setup program on CD-ROM, multilingual	00485016
	PC interface with USB/TTL converter and USB line	00456352
	Configuration line, 4-pole with connector and socket M12 × 1, and Western plug RJ-45	00484692
Power supply units for transmitter, single and 4-fold (data sheet 707500)		-
Isolation amplifier and supply isolator for the galvanic isolation of standard signals and voltage supply for two-wire transmitters (data sheet 707530)		00577948

JUMO dTRANS T09 DS, type 707091

Designation
IO-Link master upon request
Device data (IODD) on www.jumo.de or on http://ioddfinder.io-link.com.