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JUMO dTRANS T06 Ex

Multifunctional Four-Wire Transmitter in Mounting Rail Case with SIL and Ex Approval

Brief description

The JUMO dTRANS T06 Ex transmitter, type 707075, according to DIN EN 61508 SIL2 is intended to be installed on a mounting rail. It is used to acquire the temperature using an RTD temperature probe or thermocouple.
In the case of an RTD temperature probe, the sensor is connected using a 2, 3, or 4-wire connection technique. The measurement input also enables the user to connect resistance sensors (resistance transmitter) and resistance/potentiometers using a 2, 3, or 4-wire connection technique, and to acquire voltage signals from -100 mV to +1100 mV, the current unit signals 0 to 20 mA and 4 to 20 mA as well as the voltage unit signal 0 to 10 V.

The output signal provided is galvanically isolated from the intrinsically safe sensor circuit (associated apparatus). Depending on the measurement input, different linearization variants (linear, temperature-linear, customer-specific, etc.) are possible.
The variants 0(4) to 20 mA and, alternatively, 0 to 10 V are available as the output signal. The functionality of the JUMO dTRANS T06 Ex, type 707075, can be expanded through the option of an RS485 interface.
A graphic display is used to visualize the measured values. The operating status is signaled optically using a 2-color LED (red/green). Smooth operation is indicated through a permanent green LED; a malfunction status is indicated through a red LED.

The sensor type, measuring range, linearization, output signal, limit values, etc. can be configured using a PC as well as the setup program. For this purpose, the device can be connected to the PC via a micro-USB port and a corresponding USB cable. Alternatively, the configuration is also possible via 4 keys.

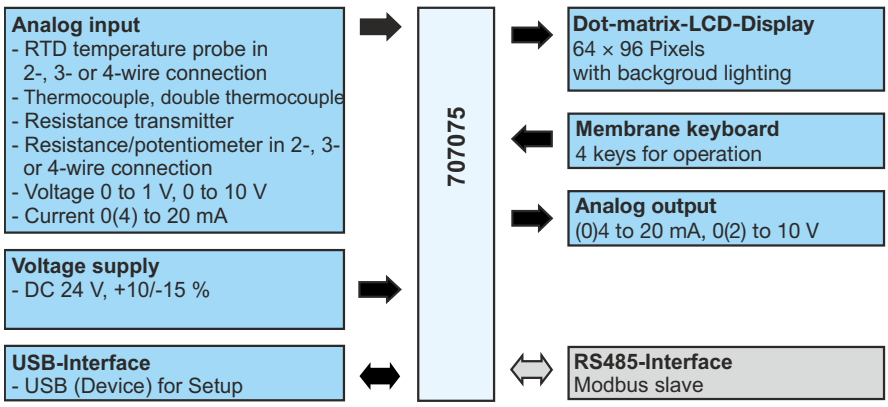
The housing has a design width of 22.5 mm and is designed to be mounted on a DIN rail measuring 35 mm x 7.5 mm according to EN 60715. The electrical connection is established via screw terminals for conductor cross sections measuring 0.2 to 2.5 mm².

The device meets the requirements according to DIN EN 61508 SIL2. The systematic capability (SC 3) of the hardware and software corresponds to Safety Integrity Level (SIL3).
Depending on the architecture used, it is possible to achieve SIL2 or PL c for HFT=0 (single device) and SIL3 or PL d for HFT=1 (2 devices).



Type 707075/...

Block diagram



Special features

- universal input for a variety of sensors and standard signals
- SIL2/SIL3 according to DIN EN 61508 and PL c/d according to ISO 13849
- ATEX and IECEx approval
- customer-specific linearization
- intuitive operation and configuration on the instrument or via USB interface via setup program
- RS485 interface (option)
- intelligent additional functions such as min/max drag pointer, operating hours counter and output simulation
- Connection diagram can be called up on the LCD display

Approvals/approval marks (see "Technical data")

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Technical data

Analog input

Noise suppression, filter time, measuring value offset, and fine adjustment can be adjusted for all input variants.

RTD temperature probe

Designation	Standard	Measuring range	Measuring accuracy[a]	R_{100} / R_0	ITS
Pt50	GOST 6651-2009 A.2			1.3911	90
2/3-wire circuit		-200 to +850 °C	±0.5 K		
4-wire circuit		-200 to +850 °C	±0.3 K		
Pt100	IEC 60751:2008			1.3851	90
2/3-wire circuit		-100 to +200 °C	±0.2 K		
		-200 to +850 °C	±0.4 K		
4-wire circuit		-100 to +200 °C	±0.1 K		
		-200 to +850 °C	±0.2 K		
Pt500, Pt1000	IEC 60751:2008			1.3851	90
2/3-wire circuit		-100 to +200 °C	±0.2 K		
		-200 to +850 °C	±0.4 K		
4-wire circuit		-100 to +200 °C	±0.1 K		
		-200 to +850 °C	±0.2 K		
Ni100, Ni500, Ni1000	DIN 43760:1987-09			1.618	IPTS-68
2/3-wire circuit		-60 to +250 °C	±0.4 K		
3-wire circuit		-60 to +250 °C	±0.2 K		
Ni100	GOST 6651-2009 A.5			1.6172	90
2/3-wire circuit		-60 to +180 °C	±0.4 K		
3-wire circuit		-60 to +180 °C	±0.2 K		
Pt100	GOST 6651-2009 A.2			1.3911	90
2/3-wire circuit		-100 to +200 °C	±0.2 K		
		-200 to +850 °C	±0.4 K		
4-wire circuit		-100 to +200 °C	±0.15 K		
		-200 to +850 °C	±0.25 K		
Cu50	GOST 6651-2009 A.3			1.428	90
2/3-wire circuit		-180 to +200 °C	±0.5 K		
4-wire circuit		-180 to +200 °C	±0.3 K		
Cu100	GOST 6651-2009 A.3			1.428	90
2/3-wire circuit		-180 to +200 °C	±0.4 K		
4-wire circuit		-180 to +200 °C	±0.2 K		

Ambient temperature influence	≤ ±0.005 %/K deviation from 22 °C
Measuring current	< 0.3 mA
Sensor line resistance	≤ 50 Ω per line for 3 and 4-wire circuit ≤ 100 Ω line resistance for 2-wire circuit
Lead compensation	Not required for 3-wire circuit. In 2-wire circuits, lead compensation is performed in the software by entering a fixed line resistance.
Special features	- Can also be programmed in °F - Basic sensor type can be changed with sensor factor (e.g., Pt50 to Pt100)

[a] The accuracy specifications refer to the maximum measuring range.

Thermocouples

Designation	Standard	Measuring range	Measuring accuracy[a]	ITS
Fe-CuNi “L”	DIN 43710:1985-12	-200 to +900 °C	±0.1 %	IPTS-68
Fe-CuNi “J”	DIN EN 60584-1:2014	-210 to +1200 °C	±0.1 % from -100 °C	90
Cu-CuNi “U”	DIN 43710:1985-12	-200 to +600 °C	±0.1 % from -100 °C	IPTS-68
Cu-CuNi “T”	DIN EN 60584-1:2014	-200 to +400 °C	±0.1 % from -150 °C	90

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Designation	Standard	Measuring range	Measuring accuracy[a]	ITS
NiCr-Ni “K”	DIN EN 60584-1:2014	-200 to +1300 °C	±0.1 % from -80 °C	90
NiCr-CuNi “E”	DIN EN 60584-1:2014	-200 to +1000 °C	±0.1 % from -80 °C	90
NiCrSi-NiSi “N”	DIN EN 60584-1:2014	-200 to +1300 °C	±0.1 % from -80 °C	90
Pt10Rh-Pt “S”	DIN EN 60584-1:2014	-50 to 1768 °C	±0.15 % from -60 °C	90
Pt13Rh-Pt “R”	DIN EN 60584-1:2014			
Pt30Rh-Pt6Rh “B”	DIN EN 60584-1:2014	-50 to 1820 °C	±0.15 % from 400 °C	90
W5Re-W26Re “C”	DIN EN 60584-1:2014	0 to 2315 °C	±0.15 %	90
W5Re-W20Re “A1”	GOST R 8.585-2001	0 to 2500 °C	±0.15 %	90
W3Re-W25Re “D”	ASTM E1751M-15	0 to 2315 °C	±0.25 %	90
Chromel®-COPEL® "L"	GOST R 8.585-2001	-200 to +800 °C	±0.1 % from -80 °C	90
Chromel®-Alumel ® "K"	GOST R 8.585-2001	-270 to +1372 °C	±0.1 % from -80 °C	90
Platinel II	ASTM E1751M-15	0 to 1395 °C	±0.15 %	90

Ambient temperature influence	≤ ±0.005 %/K deviation from 22 °C, plus accuracy of the cold junction
Measuring range start/end	Freely programmable within the limits in increments of 0.1 K
Cold junction	Pt1000 internal, thermostat (fixed constant value), adjustable
Cold junction accuracy (internal)	±1 K
Cold junction temperature (fixed constant value)	-20 to +80 °C adjustable
Special features	Can also be programmed in °F

[a] The accuracy specifications refer to the maximum measuring range.

Standard signals

Designation	Measuring range	Measuring accuracy[a]	Ambient temperature influence
Voltage freely scalable Input resistance R_E > 500 kΩ Input resistance R_E > 1 MΩ	 DC 0 to 10 V DC 0 to 1 V (mV input)	 ±5 mV ±0.05 %	≤ ±0.005 %/K deviation from 22 °C
Current (voltage drop ≤ 2 V**)**, freely scalable	DC 0(4) to 20 mA	±20 µA	≤ ±0.005 %/K deviation from 22 °C

Galvanic isolation	See Chapter "Electrical data", page 4 and Chapter "Galvanic isolation", page 9	
Special features	Measuring range, scaling adjustable	
Limits according to recommendation of NAMUR NE 43 in case of deviation under/above measuring range		**Signal type 4 to 20 mA**
Measurement information M		3.8 to 20.5 mA
Failure information A for deviation below measured value/short circuit ("NAMUR Low")		≤ 3.6 mA
Failure information A for deviation above measured value/probe break ("NAMUR High")		≥ 21 mA

[a] The accuracy specifications refer to the maximum measuring range.

Resistance transmitter

Designation	Measuring range	Measuring accuracy[a]	Ambient temperature influence
Resistance transmitter	≤ 400Ω	±0.4 Ω	≤ ±0.01 %/K deviation from 22 °C
Resistance transmitter	400 to 4000 Ω	±4 Ω	≤ ±0.01 %/K deviation from 22 °C
Resistance transmitter	4000 to 10000 Ω	±10 Ω	≤ ±0.01 %/K deviation from 22 °C

Connection type	3-wire circuit
Sensor line resistance	Max. 50 Ω per line
Resistance values	Freely programmable within the limits in steps of 0.1 Ω
Special features	Measuring range scaling adjustable

[a] The accuracy specifications refer to the maximum measuring range.

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Resistance/potentiometer

Designation	Measuring range	Measuring accuracy[a]	Ambient temperature influence
Sensor type resistance/potentiometer	Max. 10 kΩ	±10 Ω	≤ ±0.01 %/K deviation from 22 °C

Connection type	Resistance with 2, 3, or 4-wire circuit
Sensor line resistance	≤ 50 Ω per line for 3 and 4-wire circuit ≤ 100 Ω line resistance for 2-wire circuit
Resistance values	Freely programmable within the limits in steps of 0.1 Ω
Special features	Measuring range scaling adjustable

[a] The accuracy specifications refer to the maximum measuring range.

Measuring circuit monitoring

In the event of a malfunction, the outputs take on defined (configurable) statuses.

Measuring probe	Out of range	Probe/cable break	Probe/cable short circuit
RTD temperature probe	Is detected	Is detected	Is detected
Resistance transmitter	Is detected	Is detected	Is not detected
Thermocouple (single)	Is detected	Is detected	Is not detected
Double thermocouple	Is detected	Is detected	Is detected
Voltage 0 to 10 V 0 to 1 V	 Is detected Is detected	 Is not detected Is not detected	 Is not detected Is not detected
Current 4 to 20 mA 0 to 20 mA	 Is detected Is detected	 Is detected Is not detected	 Is detected Is not detected

Analog output

Resolution of D/A converter >15 bit	Load resistance R_{Load}	Accuracy	Burden influence
Voltage DC 0(2) to 10 V	≥ 500 Ω	≤ ±0.05 % referring to 10 V	≤ ±15 mV
Current DC 0(4) to 20 mA	≤ 500 Ω	≤ ±0.05 % referring to 20 mA	≤ ±0.02 %/100 Ω

Display

Type, resolution	Dot-matrix LCD display with 64 × 96 pixels
Brightness setting	Contrast can be adjusted on device, backlight can be switched off via timeout

Electrical data

Voltage supply	DC 24 V, +10/-15 %
Power consumption	With voltage supply 24 V: max. 3 W
Inputs and outputs Conductor cross section	 Max. 2.5 mm^2, wire or strand with ferrule
Electrical safety	According to DIN EN 61010-1 Overvoltage category III, pollution degree 2
Electromagnetic compatibility Interference emission Interference immunity	According to DIN EN 61326-1 Class A - For industrial applications only - Industrial requirements
Sampling rate	500 ms
Input filter	Digital filter, 2nd order; filter time constant can be adjusted from 0 to 100 s

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Environmental influences

Operating temperature range Storage temperature range	-10 to +70 °C, -20 to +80 °C
Resistance to climatic conditions	≤ 85% relative humidity, annual average, no condensation

Housing

Site altitude	Maximum 2000 m above sea level
Housing type, material	Plastic housing, polycarbonate (use indoors only)
Flammability class	UL94 V0
Electrical connection	Via pluggable screw terminals
Electrical wiring	In line with the operating conditions, the temperature may exceed 60 °C at the terminals. As a result, the insulation of the cables connected at the terminals may be damaged. The affected cables must be heat-resistant up to at least 80 °C.
Mounting on	Mounting rail 35 mm × 7.5 mm according to DIN IEC 60715
Close mounting	Permitted
Installation position	Vertical
Protection type	IP20 according to DIN EN 60529
Weight with screw terminals	Approx. 200 g

Approvals/approval marks

Approval mark	Test facility	Certificate/certification number	Inspection basis	Valid for
SIL2	TÜV Nord (German Technical Inspection Agency)	SEBS-A.20140509.0933409	EN 61508 1-7	All modules
PL c			EN ISO 13849	
ATEX "i"		TÜV 19 ATEX 244073 X	Directive 2014/34/EU EN 60079-0 EN 60079-11	
ATEX "h"			Directive 2014/34/EU EN 80079-36 EN 80079-37	
ATEX safety device pursuant to "e" and "t"			IEC 60079-0, IEC 60079-11 ISO 80079-36, ISO 80079-37	
IECEx "i"		IECEx TUN 19.0005X	IEC 60079-0 IEC 60079-11	
IECEx "h"			ISO 80079-36 ISO 80079-37	

Connection possibilities for probes

JUMO probes according to data sheet 902820 can be connected. These probes have been type-tested for use in Ex areas. The values are described in the safety manual for RTD temperature probes and thermocouples for connection to the JUMO dTRANS T06 type 707075.
The probes must also have been qualified for use in the Ex area.

Electrical data for the probe input

The 707075 has the following maximum output data at the intrinsically safe input:				
U_o = 6.0 V	I_o = 13.3 mA	P_o = 19.9 mW	C_o = 39.32 µF	L_o = 0.2 H

Explanation of device identification markings

The device has approval according to ATEX and IECEX and can therefore also be used for measurements in Ex areas. However, the device itself has to be installed outside the Ex area. The inputs are intrinsically safe [Ex ia] so that relevant probes can be connected directly.

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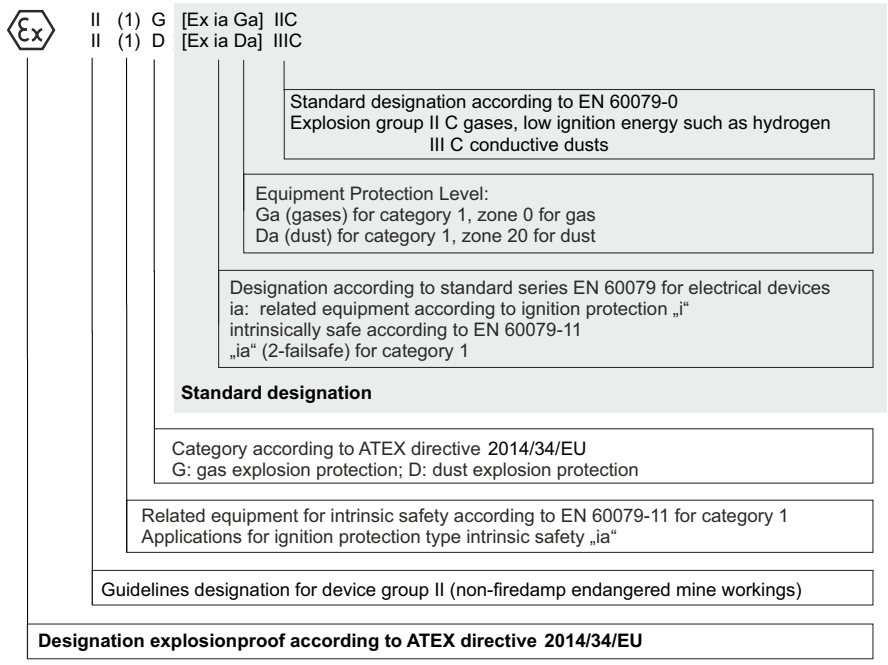
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	II (1) G [Ex ia Ga] IIC
	II (1) D [Ex ia Da] IIIC
	II (2) G [Ex eb Gb] IIC
	II (1) D [Ex ta Da] IIIC
	II (2) D [Ex tb Db] IIIC
	II (1) G [Ex h Ga] IIC
	II (1) D [Ex h Da] IIIC

	[Ex ia Ga] IIC
	[Ex ia Da] IIIC
	[Ex h Ga] IIC
	[Ex h Da] IIIC

Barriers are no longer required.
The device is also certified according to DIN EN 50495 as an ignition source monitor as specified in the ATEX directive and can be used to monitor potentially explosive atmospheres containing gas or dust.

Identification marking for ATEX ignition protection type "i"

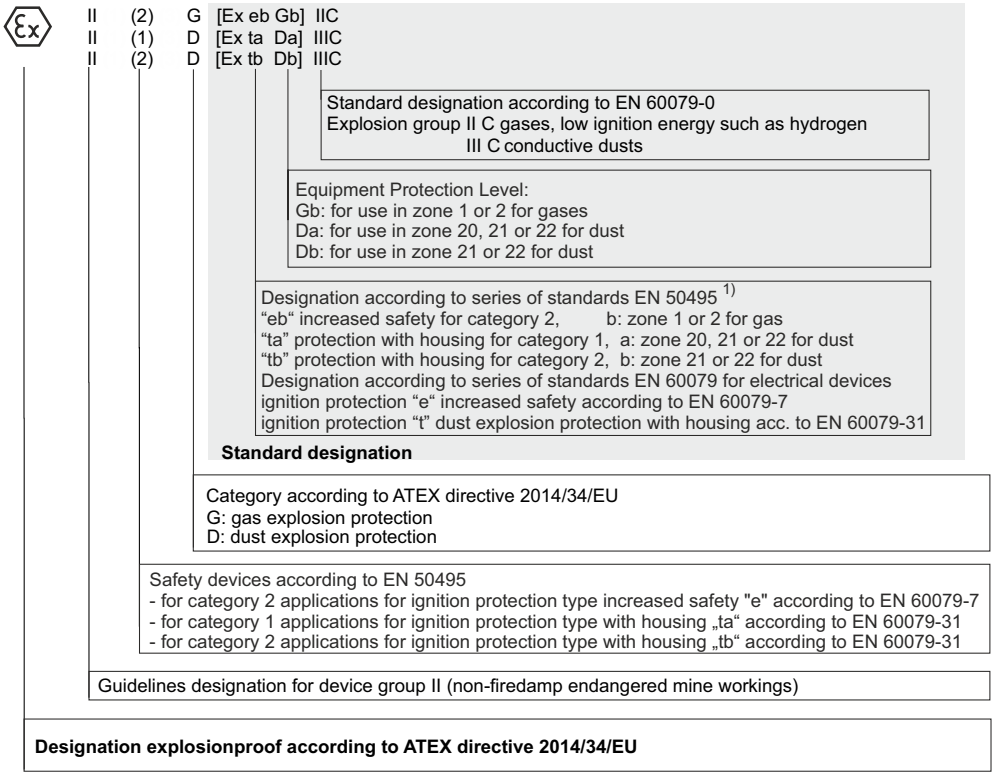


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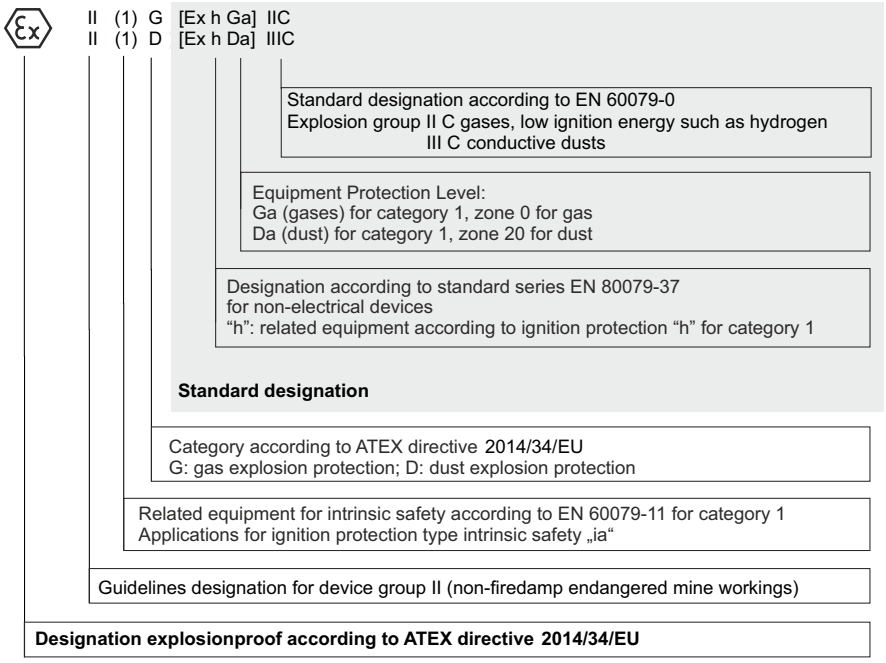
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Identification marking for ATEX ignition protection type "e" and "t"



1.) The monitored electrical equipment is not a potential ignition source in normal operation

Identification marking for ATEX ignition protection type "h"

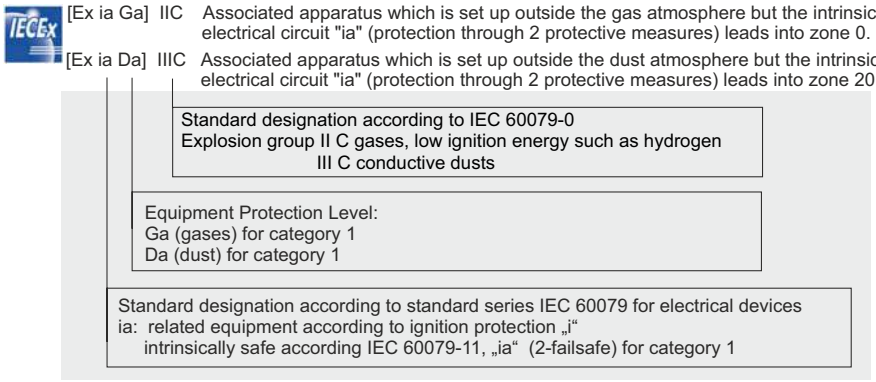


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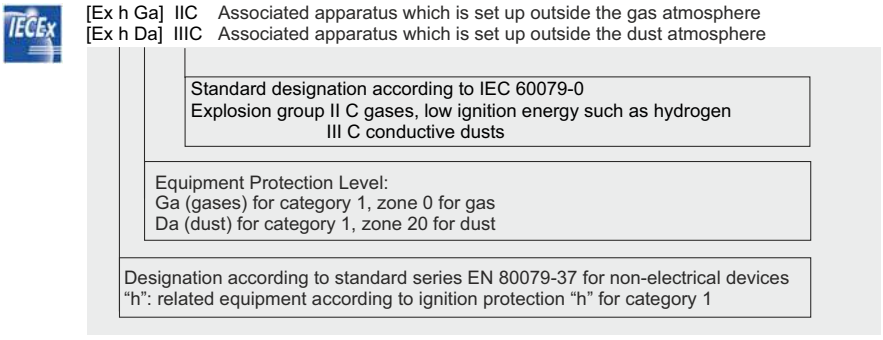
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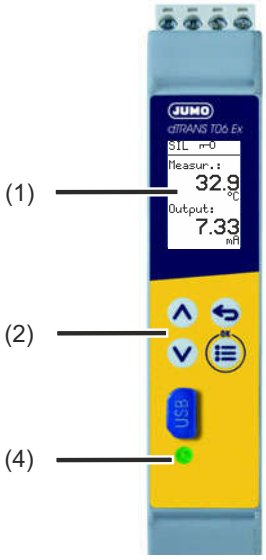
Identification marking for IECEx ignition protection type "ia"



Identification marking for IECEx ignition protection type "h"



Display and control elements

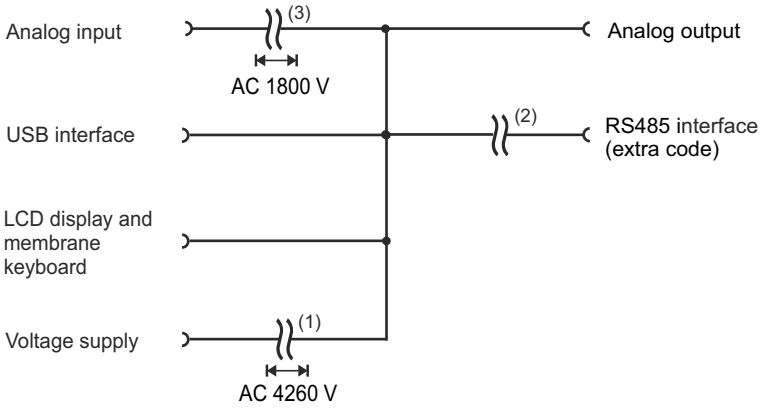
Legend	Comment	
(1)	Black and white dot-matrix LCD display with backlight, 64 x 96 pixels	
(2)	4 keys for operating the device	
(4)	LED	

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Galvanic isolation



(1) The voltage specifications correspond to the alternating test voltages (effective values) according to EN 61010-1:2011-07 for type testing.

(2) Functional galvanic isolation for the connection of SELV or PELV circuits.

(3) The voltage specification corresponds to the alternating test voltage (effective value) according to DIN EN 61010-1:2011-07 for type testing to connect SELV or PELV electrical circuits [secondary electrical circuits which are derived from supply current circuits with overvoltage category III (>150 V ≤ 300 V)].

Connection elements



(13, 14)	Voltage supply	(41, 42, 43, 44)	Analog output
(31, 32, 33, 34)	RS485 interface	(51, 52, 53, 54)	Analog input

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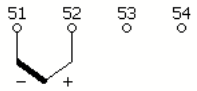
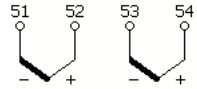
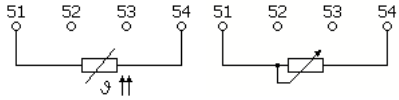
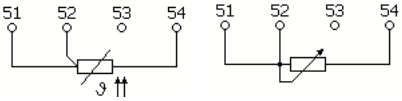
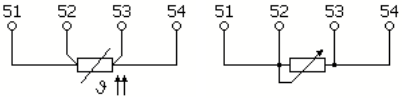
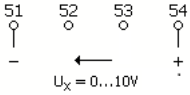
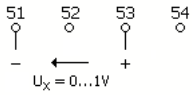
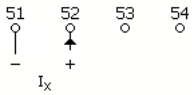
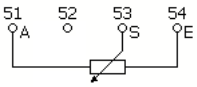
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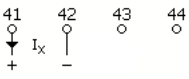
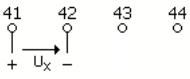
Connection diagram

The connection diagram in the data sheet provides preliminary information about the connection options. For the electrical connection, only use the installation instructions or the operating manual. The knowledge and the correct technical execution of the safety information and warnings contained in these documents are mandatory for installation, electrical connection, startup, and for safety during operation.

Analog input

Connection	Screw terminals	Symbol and terminal designation
Thermocouple	(51, 52)	
Double thermocouple	(51, 52, 53, 54)	
RTD temperature probe or resistance/potentiometer 2-wire connection	(51, 52, 53, 54)	
RTD temperature probe or resistance/potentiometer 3-wire connection	(51, 52, 53, 54)	
RTD temperature probe or resistance/potentiometer 4-wire connection	(51, 52, 53, 54)	
Voltage DC 0 to 10 V	(51, 52, 53, 54)	
Voltage DC 0 to 1 V (mV input)	(51, 52, 53, 54)	
Current DC 0(4) to 20 mA	(51, 52, 53, 54)	
Resistance transmitter A = Start E = End S = Slider	(51, 52, 53, 54)	

Analog output

Connection	Screw terminals	Symbol and terminal designation
Current output DC 0(4) to 20 mA (configurable)	(41, 42)	
Voltage output DC 0(2) to 10 V (configurable)	(41, 42)	

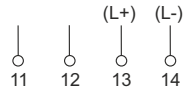
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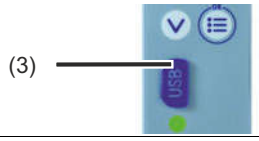
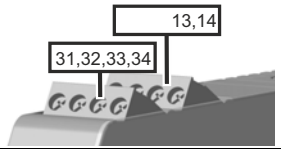
Voltage supply (according to nameplate)

DC 24 V

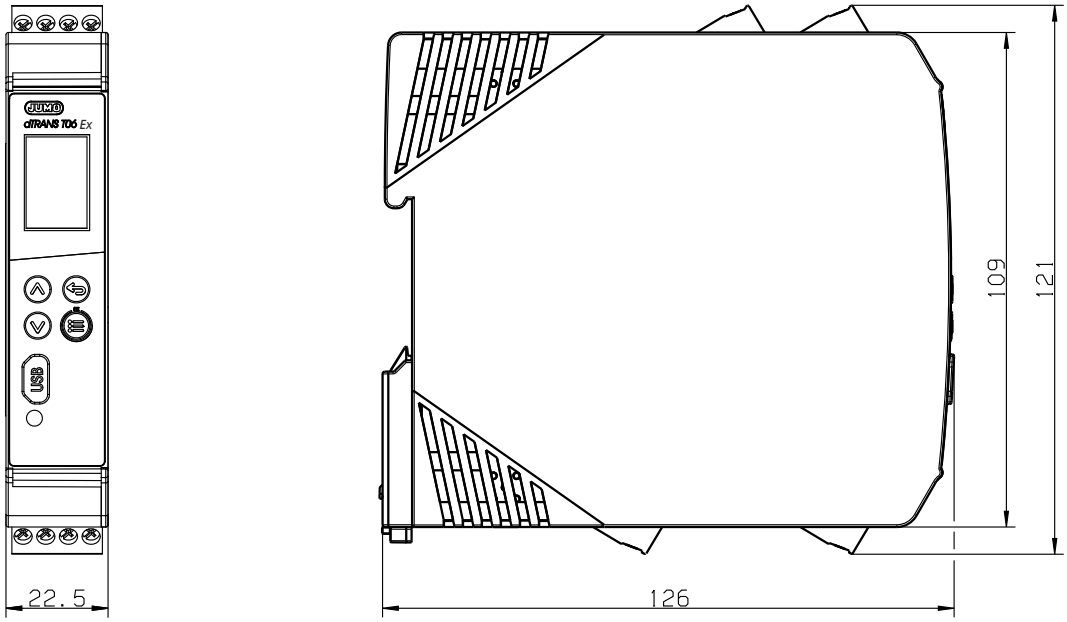
Connection	Screw terminals	Symbol and terminal designation
	(L+) (L-)	

Interfaces

Interfaces USB device, RS485

Connection	Screw terminals	Symbol and terminal designation		
USB interface (device) Micro-B connector, standard (5-pole)	(3)			
Serial interface RS485	(31, 32, 33, 34)		31 TxD+/RxD+ 32 GND 33 TxD-/RxD-	Transmission/received data + Ground Transmission/received data -

Dimensions



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Order details

	(1)	**Basic type**
707075		dTRANS T06 Ex with SIL and PL approval
	(2)	**Version**
8		Standard with default settings
9		Customer-specific configuration (specifications in plain text)
	(3)	**Voltage supply**
29		DC 24 V +10/-15 % SELV or PELV
	(4)	**Extra codes**
000		None
053		RS485 Modbus RTU

	(1)	/	**(2)**	-	**(3)**	-	**(4)**	
Order code		/		-		-		, ...
Order example	707075	/	8	-	29	-	053	

Scope of delivery

- JUMO dTRANS T06 Ex in the ordered version
- Operating manual

General accessories

Item	**Part no.**
Setup program, multilingual	00668006
USB cable A-connector to Micro-B connector, length 3 m, for type 707071	00616250
Screw-on end clamp for mounting rail	00528648