



Applicant: JUMO GmbH & Co KG
 Electrical Apparatus: Temperature Transmitter JUMO dTRANS T02,
 type 707025/...

Description of equipment

The measuring transducer JUMO dTRANS T02 Ex, type 707025/... is used to convert signals of resistance thermometers, thermoelements as well as resistive, voltage and current sensors into standardized signals 0...20 mA, 4...20 mA or 0...10 V. Input, output and further configuration parameters are freely adjustable via an interface using a PC-program. The measuring transducer is intended for installation on a mounting rail outside of the hazardous area.

The permissible ambient temperature range is -10 °C ... 60 °C.

Electrical data

Supply circuit..... (terminals L1(L+), N(L-) and PE)	U = 230 V AC ± 10 % U _m = 253 V
Output circuit..... (terminals 9(+) and 10(-))	I = 0...20 mA U _m = 253 V
Output circuit..... (terminals 11(-) and 12(+))	U = 0...10 V U _m = 253 V
Setup circuit..... (terminal posts X405_1, X405_2, X405_3 and X405_4)	U = 5 V TTL-level U _m = 253 V
Sensor circuit..... (terminals 1 through 5)	type of protection Intrinsic Safety Ex ia IIC or Ex ia IIIC Maximum values: U _o = 6 V I _o = 18.9 mA P _o = 28.4 mW linear characteristic L _i negligibly low C _i negligibly low



For relationship between explosion group and permissible external reactances, reference is made to the following table:

	IIC	IIB	IIA
L_o	20 mH	20 mH	20 mH
C_o	1.3 μ F	7.1 μ F	10 μ F

The intrinsically safe sensor circuit is safely electrically isolated from all non-intrinsically safe circuits up to a peak value of the nominal voltage of 375 V.