

Universal Isolating Amplifier

Handheld instrument

Display / Controller

Logger- / Bus systems

Transmitter

Temperature probe

Simulators

Alarm / Protection, Level

NEW!



TV 125M / ST 125M
Universal Isolating Amplifier

General:
Isolating amplifiers of the series TV/ST125M are suitable for potential isolation or for conversion of unit signals. The universal configuration of the inputs and output and the internal power supply by means of wide-range power supply enable a broad spectrum of use with only one device type. The power supply can optionally take place via a carrier rail bus connector. The push-in terminal enable simple and time-saving wiring. The configuration is also quick and easy with the front DIP switches.

Specifications:	
Power supply	
Auxiliary voltage	
Wide-range power supply:	20 ... 125 V DC / 85 ... 253 V AC (47 ... 63Hz)
Supply via power rail:	24 V DC +/-15 %
Power consumption	
Wide-range power supply:	<4 VA
Supply via power rail:	<2 W
Conformity:	Directive 2014/35/EU/2014/30/EU
EMC:	Directive 2014/30/EU
Standards:	EN 61010-1: 2010, EN 61326-1: 2013 EN 61326-3-1: 2008, Amendment 2009
Rated voltage:	253 V AC, 125 V DC in accordance with EN 60079-11 300 V AC/DC in accordance with DIN EN 61010-1 with Overvoltage Category 2 and Degree of Contamination 2 between all circuits. Safe separation with amplified isolation
Test voltage:	3 kV AC input / output / auxiliary energy
Environmental conditions	
Working temperature:	-10 ... +60 °C
Storage temperature:	-20 ... +80 °C
Air humidity:	10 ... 90 % (no condensation)
Inputs	
Voltage input:	switchable, 0 ... 10 V or 2 ... 10 V. R _i = 30 kΩ. Max. overload 26 V AC/DC
Current input:	switchable, 0 ... 20 mA or 4 ... 20 mA. R _i = 51 Ω max. overload. 94 mA
Measuring range:	adjustable ±2 %
Zero point:	adjustable ±2 %
Output	
Voltage output:	0 ... 10 V or 2 ... 10 V switchable, resistance >500 Ω.
Current output:	0 ... 20 mA or 4 ... 20 mA switchable, burden < 600 Ω.
Step response:	40 ms
Standard error:	<0.2 % of final value
Temperature coefficient:	<0.01 % / K
Transmitter supply	
Transmitter power supply (only ST125M):	>15 V DC with 20 mA output current, R _i = 300 Ω

HIGHLIGHTS:

- Standard inputs and outputs with adjustment function
- Safe galvanic isolation between input / output / auxiliary voltage with reinforced isolation in accordance with DIN EN 61010-1
- Wide-range power supply
- Power supply via power rail
- Output deviation <0.2 %
- Operating display and status messages via two-colour LED
- Configuration via front DIP switches
- Removable coded screw terminals or optional push-in terminals
- Narrow installation width of 12.5 mm
- Carrier rail mounting TS 35

Housing	
Material:	Polyamide (PA) 6.6, UL94V-0
Weight:	91 g
Protection rating:	Housing IP30, terminals IP20 BGV A3
Colour:	light grey
Installation width:	12.5 mm
Dimensions (H x D):	108 x 114 mm
Installation:	Carrier rail mounting TS35 DIN EN 60715

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1.	Device version	
	TV125M	Wide-range power supply
	TV125MP	Carrier rail bus connection, supply voltage 24 V DC +/-15 %
	ST125M	Transmitter power supply, wide-range power supply
	ST125MP	Transmitter power supply carrier rail bus connection , supply voltage 24 V DC +/-15 %
2.	Explosion protection	
	00	No protection
3.	Input	
	10	0/2 ... 10 V / 0/4 ... 20 mA
4.	Options	
	00	No options
	01	Push-in terminals (plug-in)