

ISOLATED CURRENT TO CURRENT DUPLEXING TRANSMITTER model ICCDT-1

Data Sheet and Operation Manual



DEVICE CHARACTERISTICS

Characteristic	Value(s)
Input signal in mA DC	1 x 0(4) to 20 mA DC, 2-wire connection
Output signals in mA DC	2 x 0(4) to 20 mA DC, 2-wire connection
Maximum line resistance	700Ω when supplied with 24VDC
Transducer factor	1 (repeater)
Power supply voltage	18 to 36 V DC, loop-powered through the input
Galvanic isolation	input <-> outputs
Accuracy acc. to EN 60688	0.25% F.S.
Additional deviation due to temperature	0.01% / °C
Mounting	on standard DIN rail 35 mm
Housing protection	IP40 housing IP20 terminals
Connection Terminals	Screw-type with indirect wire pressure for: ≤ 4.0 mm ² single wire or 2 × 2.5 mm ² fine wire
Dimensions	22.5 x 75 x 110 mm, 110 g

Environmental conditions	Operating temperature: -20 to $+60$ °C Storage temperature: -40 to $+70$ °C Relative humidity: $\leq 85\%$ RH Altitude: 2000 m max. Only for indoor use!
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APPLICATION

ICCDT-1 is designed to galvanically isolate and duplex an analogue signal $0(4)\div 20$ mA DC from 1 input to 2 outputs in passive power supply mode. Its input and two outputs are galvanically isolated between each other. The input and the outputs are passive, so they have to be loop-powered from the connected 2-wire circuits. The duplexing repeater has accuracy rate of $< 0.25\%$.

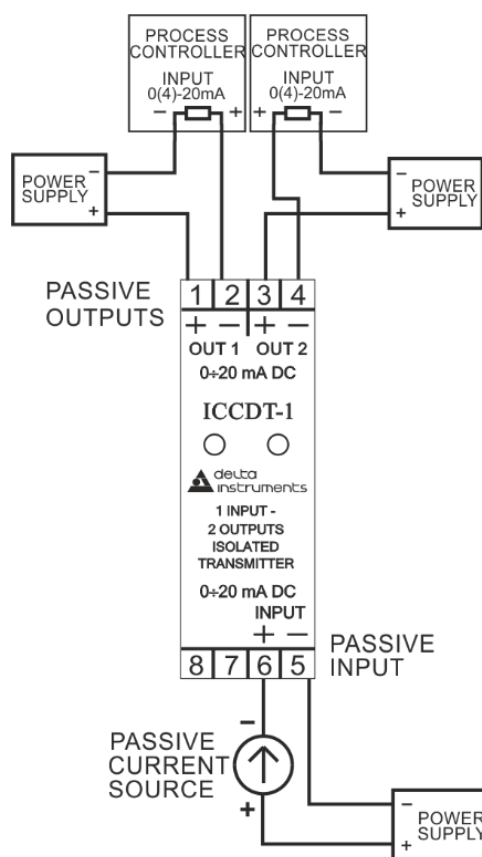
ICCDT-1 should be loop-powered with $18 \div 36$ VDC from its input circuit.

It's designed for mounting on standard 35mm DIN rail at the rear side, with its terminals at the top and bottom near the front side.

The transmitter meets all important requirements and regulations concerning electromagnetic compatibility EMC and Safety (IEC 1010 resp. EN 61 010).

The duplexing transmitter is a perfect solution for industrial and energy systems for measurement, monitoring and control, where there is a need for isolated duplexing the same input signal to two receivers.

CONNECTION DIAGRAM



Terminal	Description
1, 2, 3, 4	DC output $0(4)\text{-}20$ mA + / -
5, 6	DC input $0(4)\text{-}20$ mA - / +