

TM - 2DLI

2-WIRE UNIVERSAL TRANSMITTER (DIN mount, loop powered, isolated)

This versatile, compact transmitter accepts a range of inputs without the use of jumpers, making it ideal for a variety of applications.

Input range

RTD	PT100, PT1000,
Thermocouple	B, E, J, K, N, R, S T or custom type
Current	0-20mA, 4-20mA
Voltage	+100mV, -100mV, +1V, -1V, +10V, -10V
Potentiometer	1-10k Ω

Operating temp. -20-+80°C

Supply voltage 36V max

Isolation voltage 2.3kV AC (test)
250V AC (operation)

-----OUTPUT-----

Current output 4-20mA or 20-4mA

Temp. coefficient $\leq \pm 0.01\%$ of span/°C

Resistance Output load
resistance 50 Ω /V
above 10V

Response time 0-90%, 100-10%
<1sec

Resolution 0.5 μ A

Accuracy $\leq \pm 0.1\%$ of span

Max load 1200 Ω (at 20mA

- USB port (requires TM - USB kit - see p.8)
- Status LED:
Flashing=Normal
On=Fault
- Potentiometer for fine offset adjustment of current output
- 35mm DIN rail case
79 x 20 x 75mm
(H x W x D)



Load stability	with 36V input) $\leq 0.01\%$ of span/100 Ω
Error detection	LED indication for sensor errors (3.8mA, 21.5mA)
Linearisation	32-point flexible linearisation may be applied to current/voltage inputs

CODE DESCRIPTION

TM - 2DLI	2-wire universal transmitter (DIN-mount, isolated) Powered by 4-20mA current loop input signal
TM - USB	Reusable communications kit containing: USB programmer, head mount adaptor, transmitter/programmer interface cable and USB extension cable (See p.8 for more info.)