MTL4644D REPEATER POWER SUPPLY single channel, 4/20mA, HART[®] for 2- or 3-wire transmitters, two outputs

The MTL4644D provides a fully-floating dc supply for energising a conventional 2- or 3-wire 4/20mA transmitter and repeating the current in other circuits to drive two loads. For HART 2-wire transmitters, the unit allows bi-directional transmission of digital communication signals superimposed on the 4/20mA loop current.

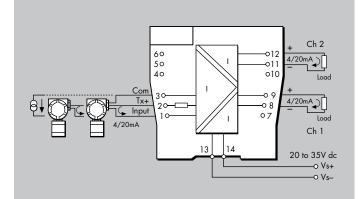
SPECIFICATION

See also common specification

Number of channels

One Output 4 to 20mA Signal range: Under/over-range: 0 to 24mA Load resistance 0 to 360Ω @ 24mA: @ 20mA: 0 to 450Ω Circuit output resistance: > $1M\Omega$ **Circuit ripple** < 50µA peak-to-peak Input 0 to 24mA (including over-range) Signal range: Transmitter voltage: 16.5V at 20mA Transfer accuracy at 20°C Better than 15µA **Temperature drift** < 0.8µA/°C **Response time** Settles to within 10% of final value within 50µs **Communications supported** HART (terminals 1 & 2, output Ch 1 only)

MTL4644D



LED indicator

Green: power indication Maximum current consumption (with 20mA signals)

96mA at 24V dc

Power dissipation within unit (with 20mA signals) 1.4W @ 24V dc

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.



THE AMERICAS: +1 800 835 7075 csinfo@mtl-inst.com ASIA-PACIFIC: +65 6 645 9888 sales.mtlsing@cooperindustries.com