

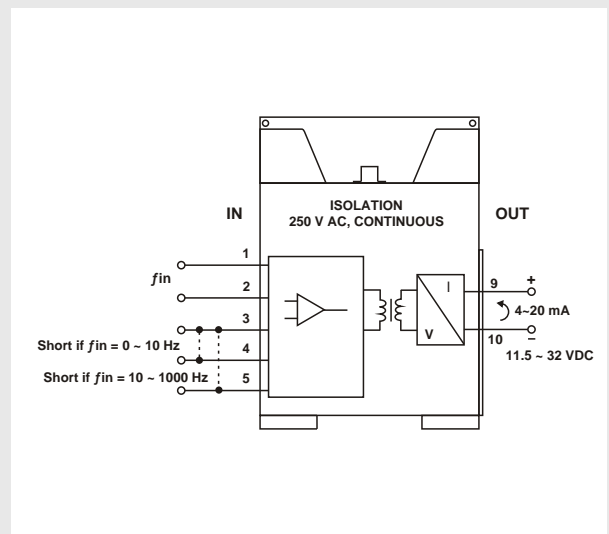


- True 2-wire operation
- Input : 0~10 KHz
- 0.1% linearisation accuracy
- Software calibration - no trim pots
- Upscale/downscale selection
- 11.5~32 V DC loop supply
- 4~20 mA or 20~4 mA selection
- 4-digit LED display enhances utility
- DIN Rail and FLP versions

TX4DR is a microcontroller based user programmable high performance, 2-wire frequency transmitter. Its high reliability industrial design offers some rare functions.

TX4DR has an integral 4-digit LED display, which enhances utility greatly and also allows a large amount of programming.

CONNECTION DIAGRAM



## 2-WIRE PROGRAMMABLE, ISOLATED FREQUENCY TRANSMITTER — TX4DR

SPECIFICATIONS <span style="float: right;">T<sub>ambient</sub> = 25 °C</span>		
<p><b>Input</b></p> <p><b>Input type</b>                    0~10 KHz  <b>Mode</b>                            Square root  <b>Display</b>                        4 digit, 0.3" (7.62 mm), red LED</p> <p><b>Monitoring</b></p> <p><b>Sensor break detection</b>  <b>Upscale current</b>            20~22 mA  <b>Downscale current</b>        3.9 mA</p> <p><b>Output</b></p> <p><b>Current, selectable</b>        4~20 mA, 20~4 mA  <b>Permissible load</b>         600 @ 24 V DC, 20 mA  <b>Current limit</b>                20~22 mA</p> <p><b>Accuracy</b></p> <p><b>Linearity &amp; calibration</b>    ± 0.1% of span  <b>Cold junction compensation</b> ± 1 °C  <b>Temperature effect</b>        ± 0.5% of span / 25 °C  <b>on accuracy</b>  <b>Supply voltage effect</b>      ± 0.002% of span / V  <b>Supply ripple effect,</b>       ± 0.005% of span  <b>50/60 hz, 5 Vp - p</b></p> <p><b>Power supply</b></p> <p><b>Supply voltage</b>            11.5 to 32 VDC loop supply</p> <p><b>Isolation</b></p> <p><b>Between input &amp; loop supply</b> 1000 V AC RMS / 1 minute  250 V AC RMS, continuous</p> <p><b>Calibration</b></p> <p><b>Zero &amp; span</b>                Through front panel keys &amp; display</p> <p><b>Temperature, Humidity</b></p> <p><b>Ambient, storage</b>           -22 ~ +85 °C  <b>Ambient, operation</b>        0 ~ 60 °C  <b>Relative humidity</b>         0 ~ 95%</p>	<p><b>Enclosure - DIN Rail</b></p> <p><b>Material</b>                        ABS plastic  <b>Dimensions</b>                   75(H) x 45(W) x 109.5(D) mm  <b>Mounting</b>                       Snap on for 35 mm DIN rail to 46277  <b>DIN</b>  <b>Connection, single/stranded wires</b> 2.5 mm<sup>2</sup>, AWG 14</p> <p><b>Weight</b>                         &lt; 200 grams  <b>Protection</b>                    IP 20</p> <p><b>Enclosure - Flameproof</b></p> <p><b>Material</b>                        Aluminium alloy  <b>Dimensions</b>                   100(H) x 100(W) x 152(D) mm  <b>Mounting</b>                       2" pipe  <b>Certification</b>                 Flameproof for gas groups I, IIA &amp; IIB by CMRI Dhanbad  Enclosure certified for gas group IIC also available  Through externally accessible membrane keypad (I, IIA &amp; IIB only)  <b>IP 65</b></p> <p><b>Programming</b></p> <p><b>Protection</b></p>	
PROGRAMMABLE PARAMETERS		
<p><b>Minimum frequency</b>        0.02 to 2 Hz  <b>Low scale</b>                     0 to 10000  <b>High scale</b>                    0 to 10000  <b>Preset current</b>               20 to 22 mA  <b>(Sensor break)</b>  <b>Decimal point</b>                0.001, 0.01, 0.1 or 1  <b>Output type</b>                  4~20, 20~4 mA  <b>Digital filter</b>                 A to F</p>		
ORDER CODES		
<b>MODEL</b>	<b>ENCLOSURE</b>	<b>ORDER CODE</b>
TX4DR	DIN Rail	TX40
TX4DR	Flameproof	TX41



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