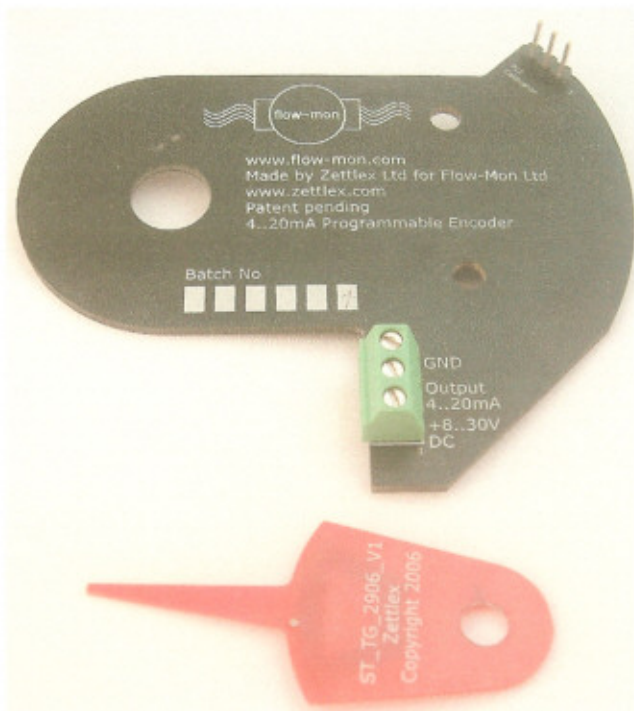


## Programmable 4-20mA current loop transducer designed to be built into Flow-Mon's flow indicators

- ❑ Based on the sophisticated Zettlex ST technology for inductive displacement sensing
- ❑ Non-Contact (no wear problems, no loading and no added hysteresis on the system to effect measurement at low flow)
- ❑ Absolute measurement (no problems if power is disconnected and reconnected)
- ❑ Robust construction (long life without problems)
- ❑ Smart (one time factory calibration stored in electronic memory)
- ❑ Accurate (more than 1000 measurement points over full-scale deflection)
- ❑ High resolution measurement (sensor can indicate changes in flow before the eye can)
- ❑ Programmable output filter for stable output (damping of the pointer vibration)
- ❑ Consists of two parts : electronics board and target (pointer replacement)
- ❑ 3 wire or 2 wire version



## Technical specifications

### Mechanical specification

Measurement range	100°
Angle resolution	0.03°
Linearity	±1%
Gap range (electronics to target)	4.3mm..5.8mm <sup>a,b</sup>
Max concentricity	±1.5mm
Repeatability	<0.2%

### Electrical specification

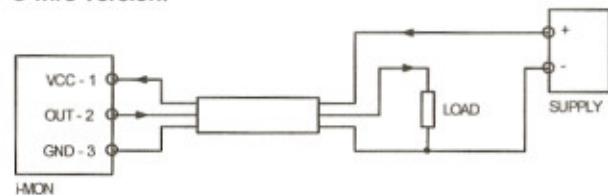
Operating voltage	8..28V DC
Supply current	50mA max <sup>d</sup> , 4..20mA <sup>e</sup>
Reverse polarity protection	yes
Overvoltage protection	up to 30V
Output signal	4..20mA <sup>c</sup>
Load impedance	$R < (U_{supply} - 3)/0.02^d$ $R < (U_{supply} - 8)/0.02^e$
Resolution of the output signal	>10 bit
Programmable output filter	0..5s (0.5s steps)
Temperature stability	<80ppm
Standard connections	3 <sup>d</sup> /2 <sup>e</sup> way terminal block, wires <1.0mm <sup>2</sup>
Operating temperature	-40°C..+85°C
Storage temperature	-40°C..+85°C

<sup>a</sup> Specified performance is only within this range of the gap  
<sup>b</sup> Gap is measured between top of the pointer and top of the electronics board  
<sup>c</sup> Guaranteed only within the full scale ±5% on both ends  
<sup>d</sup> 3 wire version only  
<sup>e</sup> 2 wire version only

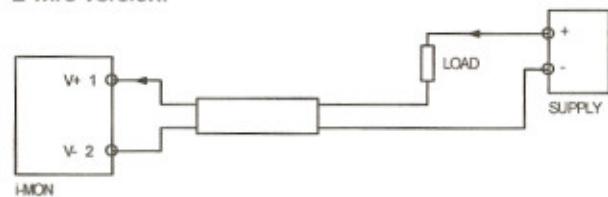
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### Installation instructions

#### 3 wire version:



#### 2 wire version:



Wires must be kept away from the underneath of the electronics board area otherwise they could affect the accuracy of the output.

(3 pins on board are for calibration only)

