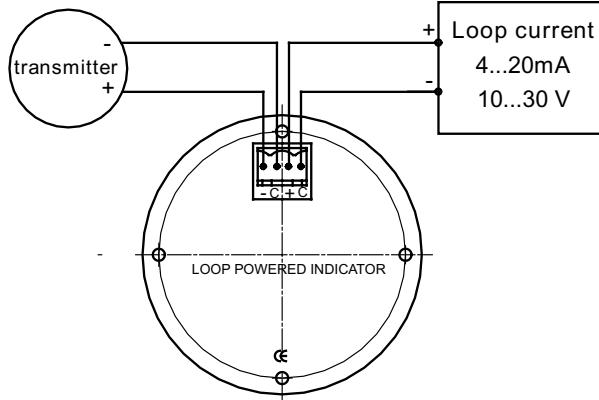


## SETUP INSTRUCTIONS:

### FULLY PROGRAMMABLE LOOP POWERED 4 DIGIT LED DISPLAY TYPE TCX-LPI

Overview								
1.	Indicator parameters	3. Configuration						
	<p>TCX-LPI is a programmable displays designed for current loops of 4-20 mA. LPI-01,02 are powered from the loop and do not require other supply. The devices can be configured by setup menu to display physical value measure by the sensor.</p> <table border="1"> <tr> <td></td><td>Display will indicate low (-LO-) when the input current is lower than overload limit (3.6 mA or 4 mA - see configuration).</td></tr> <tr> <td></td><td>Display will indicate height (-HI-) when the input current is higher than overload limit (20.0 mA or 20.4 mA - see configuration).</td></tr> <tr> <td></td><td>Display will indicate (----) when displayed value is &lt;1999 or &gt; 9999.</td></tr> </table>		Display will indicate low (-LO-) when the input current is lower than overload limit (3.6 mA or 4 mA - see configuration).		Display will indicate height (-HI-) when the input current is higher than overload limit (20.0 mA or 20.4 mA - see configuration).		Display will indicate (----) when displayed value is <1999 or > 9999.	<p>Displayed text</p> <p>To enter menu press E button for 2sec.</p>
	Display will indicate low (-LO-) when the input current is lower than overload limit (3.6 mA or 4 mA - see configuration).							
	Display will indicate height (-HI-) when the input current is higher than overload limit (20.0 mA or 20.4 mA - see configuration).							
	Display will indicate (----) when displayed value is <1999 or > 9999.							
		<p><b>dp</b></p> <p>Setting decimal point DP</p> <ol style="list-style-type: none"> <li>Press E button</li> <li>Press  and  button to change decimal position:           <ul style="list-style-type: none"> <li>- 1.234 (value 3)</li> <li>- 12.34 (value 2)</li> <li>- 123.4 (value 1)</li> <li>- 1234 to decimal point (value 0)</li> </ul> </li> <li>Press E button</li> </ol>						
		<p><b>ZERO</b></p> <p>Setting low limit Zero(setup of the low limit)</p> <ol style="list-style-type: none"> <li>Press E button.</li> <li>Press  or  button change the value between -1999 and 9999. (the value chosen will be displayed at input current of 4 mA-point low).</li> <li>Press again E button .</li> </ol>						
		<p><b>Span</b></p> <p>Setting high limit SPA n(setup of the high limit.)</p> <ol style="list-style-type: none"> <li>Press E button.</li> <li>Press  or  button change the value between 1999 and 9999. (the value chosen will be displayed at input current of 20 mA-point high).</li> <li>Press E button</li> </ol>						
		<p><b>li</b></p> <p>Setting overload limit Li(setup of the overload limit.)</p> <ol style="list-style-type: none"> <li>Press E button</li> <li>Press  or  button to change the value           <ul style="list-style-type: none"> <li>- 0 for 4 mA-20 mA the displays shows - LO- when current &lt; 4 mA, and -HI- when current &gt; 20 mA</li> <li>- 1 for 3.6 mA – 20.4 mA the display shows :               <ul style="list-style-type: none"> <li>- LO - when current &lt; 3.6 mA,</li> <li>- HI - when current &gt; 20.4 mA</li> </ul> </li> </ul> </li> <li>Press E button.</li> </ol>						
		<p><b>st</b></p> <p>Setting sampling rate St</p> <ol style="list-style-type: none"> <li>Press E button.</li> <li>Press  or  to change the sampling rate from 1 to 10 seconds.</li> <li>Press E button.</li> </ol>						
		<p><b>Unit</b></p> <p>Setup engineering Unit</p> <ol style="list-style-type: none"> <li>Press E button.</li> <li>Press  or  button to select the unit           <ul style="list-style-type: none"> <li>- nonE – for no unit on the display.</li> <li>- °C, °F, °K, %.</li> </ul> </li> <li>(LPI-01, 02 works on 6 sec. cycle</li> <li>- measured value is displayed for 4s</li> <li>- the unit is displayed for 2s.)</li> <li>Press E button.</li> </ol>						
		<p><b>Exit from menu and save settings</b></p> <p>Press  and  buttons (possible from each page)</p>						

## PROGRAMMABLE LOOP POWERED LED DISPLAY – type TCX-LPI



### TECHNICAL DATA

Performances		Functionalities	
Reference operating condition	25°C	Parameters	Zero,span,decimal,point, refresh rate,unit
Max. Measured error	0,1% of the programmed range +/- 1 digit	Indication limits	-1999 to +9999
Influence of ambient temperature (tem. drift)	20ppm/°C of measuring range at 20°C as reference temperature	Programmable range	-1999 to +9999
Output signal	4...20 mA	Decimal points position	0, 1, 2, 3 decimals
Supply voltage	24V	Over-load limits	From 3.5 to 20.5 mA
Voltage drop out	3,3V at 4 mA and 3,7V at 20 mA	Refresh rate	From 1 to 10 second
Minimum current of LED activation	3.5 mA	Calibration points	Zero (4 mA) and span (20 mA), stored on FLASCH
Digits	LED, 4 digits7 segments, hight 9,5mm	Unit	°C, °F, °K, % in cycle: 4sec. value – 2sec. unit
Visible dimension	30x14	Mechanical construction	
Display characteristics	6400ucd for If=10mA	Electrical loop connection	2 terminals, max.wire section 1mm² (16 AWG)
Data storage	FLASCH	Dimension	Ø64 x 19 mm
Storage period	10 years (non powered)	Weight	65g
Mounting	4 holes/90 Ø 4,2 on Ø 55	Short mark display closed in the connection head or measuring	....die – standard version
Collaboration with Hart protocol transmitter	Yes		
Operating conditions			
Ambient temperature	-20...80°C		
Storage temperature	-30...80°C		
Moisture	25 bei 95% non condensating		
Ingress protection	IP 20		
Elektromagnetic compatibility	Carried out with positive results EN 61000, EN 55022		