

## Digital Pressure Gauge with Battery-Powered PM-3000

### Operating Manual

#### 1. Summary

PM-3000 Digital Pressure Gauge Series are designed for pressure applications that involve measurement of any media compatible with 316 stainless steel. Designed for battery operation, this digital gauge has an automatic shutoff feature allowing the user to walk away after taking a reading. Water-proof housing adopted for harsh environment is our big advantage.




#### 2. Technical Parameters

Wetted parts	SS304/ss316	Operable Temp. ( °C )	-20~85°C
Housing	Plastic (water proof)	Storage Temp ( °C )	-20°C...125°C
Power supply	9V battery	Long term stability	±0.25%FS(annual)
Media	Be compatible with 316L	Zero error ( %FS )	±0.5%
Protection grade	IP66	Full range error ( %FS )	±0.5%
		Thermal Zero drift ( %FS )	±1.0%
Pressure port	G1/2,G1/4 optional	Thermal Span drift ( %FS )	±1.0%
		Life cycle	9 millions
Accuracy	0.5%FS(typical) ,0.25%FS	Response	5ms
Pressure Range(Bar)	0...600	Insulation	Min1MΩ @250VDC&25°C
		Shock	100g , 11msec
Over pressure	3X Full Range	Noise	< 2m VRMS
Burst pressure	4X Full Range or 20kpsi which is less	Pressure reference	Absolute /Vent Gauge
Life	>10 <sup>7</sup> Full Range Pressure		
Display	4 1/2 digit LCD	Weight	200g Max

### 3. Parameters table

Name	Item	Setting range
FL	Lower Range	-1999-19998
FH	Upper Range	-1998-19999
FLC	Zero Correcting Valve	-1999-1999
DP	Decimal Point	0-3
FHC	Full Scale Correcting Valve	0.500-1.500
FT	Digital Filter Time Constant	1-250
UNIT	Unit display optional	0-15
SPS	Sampling speed	1-6
YPP	Peak Holding	0-1
RUN	Automatic Power-off Setting	0-1
TIMR	Automatic delay power-off time setting	0-99.6H

### 4. Operations

Name		Remarks
<b>Display Window</b>	Display Window of measured Value	<ul style="list-style-type: none"> <li>• Indication of Measured Values.</li> <li>• Indicating signs and values of Parameters in the Parameter Set Up Mode.</li> <li>• Decimal point of final digit is the recording designation.</li> </ul>
<b>Operational Keys</b>	The S  Key	<ul style="list-style-type: none"> <li>• In Measuring Mode, hold down the key for more than 3 seconds to enter the Set Up Mode.</li> <li>• In Set Up Mode, hold down the key for more than 3 seconds, when displaying sign of parameters to enter the next group of parameters or return to the Measuring Mode.</li> <li>• In Set Up Mode, press the key once, when displaying sign of parameters to change the next parameter of the same group of parameters.</li> <li>• In Set Up Mode, press the key once, when displaying content of parameters to save the modified parameter.</li> </ul>
	The on/off  Key	<ul style="list-style-type: none"> <li>• Switching on press the key more than 3 seconds, if off , repeat .</li> <li>• Decrease parameter values or change setting mode in Set Up Mode</li> </ul>
	The back/light  Key	<ul style="list-style-type: none"> <li>• Press the key more than 3 seconds to open back light .</li> <li>• Increase parameter values or change setting mode in Set Up Mode</li> </ul>

### 5. Installation

PM-3000 can be directly mounted in the hydraulic pipe through the pressure pipe joints (M20\*1.5) other size fittings available when ordering .In critical applications , such as severe vibration or shock , pressure hose pipe connection can be micro-mechanical decoupling.

Note: The range less than 100Kpa must be installed vertically.

## 6. Battery Replacement

Remove back cover in the direction of arrow of the unit carefully remove battery from the holders by lifting up the positive end of the battery (opposite the spring) . Take care not to bend or distort the battery retention springs. Do NOT discard the old battery into fire, any other sources of extreme heat ,or in any other hazardous manner. Always replace both batteries at the same time with high quality alkaline laminated batteries. Observe the polarity of the batteries when replace them. The negative (flat) end of batteries should be inserted first and should face the spring in the battery holder. Replace the back cover, including the rubber sealing gasket.

