

MPG SERIES

MELT PRESSURE GAUGE

FEATURES

- ⊙ Direct, local readings
- ⊙ Stainless steel construction
- ⊙ Thermocouple J, E, K or Pt100 available
- ⊙ Various thread available: 1/2"-20, M14, M22 etc
- ⊙ TiN or TiAlN coating option
- ⊙ No power required.
- ⊙ 400 °C (750° F) Rating
- ⊙ Measure / Display pressure at-line
- ⊙ 0~25/40/70MPa(0~3500/5000/10000psi)



INTRODUCTION

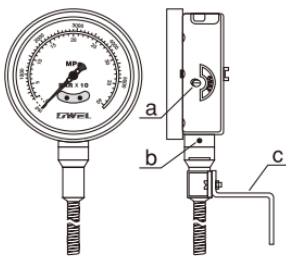
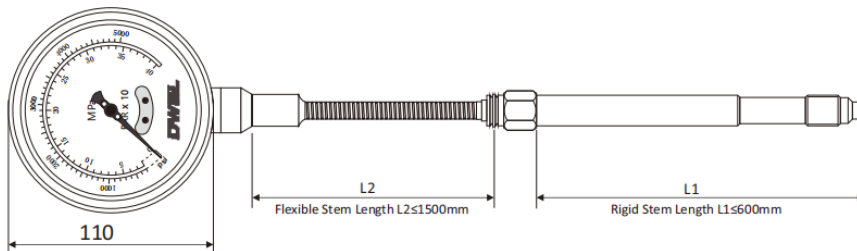
The DWEL MPG Series Melt Pressure Gauges are specifically designed for melt pressure applications in high-temperature environments and offer reliable performance even during power outages. The rigid snout version of the mechanical gauge features a rotatable design, ensuring unobstructed viewing. Optional built-in pressure transducers with a 2.0mV/V output and pressure transmitters with a 4~20mA output are available, enabling remote monitoring when connected to pressure indicators. Additionally, thermocouple or RTD configurations can be included to measure melt temperature accurately.

SPECIFICATIONS

Pressure range	0~25MPa, 0~40MPa, 0~70MPa (Bar/psi)
Accuracy	±2.5% FS for no output ±0.5% FS, ±1.0% FS, ±1.5% FS
Repeatability	±2.0% FS ±0.4% FS, ±0.8% FS, ±1.2% FS
Input excitation	10VDC (6~12VDC) for transducer 24VDC (15~36VDC) for transmitter
Output signal	Optional 0~10V, 4~20mA, 3.33mV/V, 3.0mV/V, 2.0mV/V
Maximum diaphragm temperature	662°F (350°C) for rigid stem 752°F (400°C) for flexible

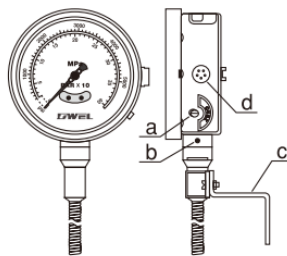
Zero shift due to temperature change	40 psi/100°C 0.3MPa/100°C
Process connection	1/2-20 UNF thread (45° conical seal) M14x1.5,M18x1.5,M22x1.5 etc
Maximum Overload Pressure Rating	1.5 x FS(<1000bar) 1.2 x FS(>1000bar)
Pressure Units	PSI, Bar, MPa or Kg/cm2
Internal Shunt Calibration	80% FSO
Electrical Connection	5PIN
Max Torque	30Nm(22lbf ft)
Temperature sensor	E,J,K type or Pt100

MECHANICAL DIMENSION



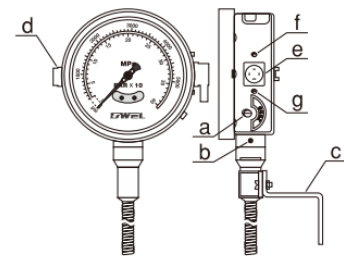
PT135G

- a: External zero adjustment
- b: The Angle of header adjustment
- c: Mounting bracket



PT135C

- a: External zero adjustment
- b: The Angle of header adjustment
- c: Mounting bracket
- d: Sensor 5PIN connector



PT135B

- a: External zero adjustment
- b: The Angle of header adjustment
- c: Mounting bracket
- d: Transmitter power input
- e: Transmitter signal output
- f: Zero output adjustment button
- g: Full span adjustment button

ORDER FORMAT

PT 135XX-XXX-XXX-XXX/XXX-X-XXX

Function	Code
Mechanical style	G
Built in Pressure transducer	C
Built in Pressure transmitter	B

Coating on diaphragm	Code
No coating	Null
TiN / TiAlN coating	C

Pressure range	Code
0~25MPa/250bar	25MPa
0~40MPa/400bar	40MPa
0~70MPa/700bar	70MPa

Process connection	Code
1/2-20UNF	1/2
M14 X 1.5	M14
M18 X 1.5	M18
M22X1,5	M22

Rigid stem length	Code
150mm	150
Others on request	

Output Signal	Code
No output(PT135G)	Null
2.0mV/V(PT135C)	2MV
3.33mV/V(PT135C)	3MV
0~10V(PT135B)	V
4~20mA(PT135B)	MA

Thermocouple	Code
No thermocouple	Null
J type	J
K type	K
E type	E
Pt100	Pt100

Flexible stem length	Code
None	Null
470mm	470
700mm	700
1000mm	1000
Others on request	

Example:

PT135C-40MPa-1/2-150/470-2MV

PT135C series with 2.0mV/V output, thread size 1/2-20UNF, rigid stem length 150mm, flexible stem length 470mm, no thermocouple.