

DPR100 Digital Pressure Recorder/Logger



DPR100 is a battery powered pressure recorder, with LCD display. It is perfect for applications requiring display pressure readings. Available on-screen data includes: statistics (max., min., average); recording status (start, stop and recording rate), display options (channel, units, text size); calibration information (data calibrated, data for recalibration). Statistics can be cleared at any time during logging. With 250000 readings, the DGR100 has one of the largest memory capacities. The non-volatile memory will retain recorded data, even if battery power is lost. Simply connect the interface cable to an available USB Port with a few clicks of the mouse, data is downloaded and ready for review and export to EXCEL.

Application:

- Precision pressure measurement
- Field gauge calibration
- Pressure safety valve (PSV) testing
- Pressure regulator testing
- Leaking testing

Features:

- Pressure ranges to 2,500 bar
- High accuracy 0.1%FS
- Fully temperature compensated accuracy -10°C to 50°C
- Large LCD 5 bits display with backlight
- Front panel keys for fast, easy operation
- User-selectable measurement units
- Real-time operation, high speed download
- Programmable start/stop time
- Aluminum housing

Technical Specifications:

- Response Time: 0.1ms
- Start/Stop Time: Software programmable start time& date, up to six months in advance
- Memory Capacity: 250000 readings
- Reading Rate: 1 reading every 2 seconds to 1 every 24 hours
- Power: Three AA alkaline batteries or one 3.6V Lithium Battery
- Battery Life: 1 year battery life at 1 minute reading rate with display off.
- Engineering Units: Pa, kPa, MPa, mmH₂O, mmHg, psi, bar, mbar
- Communication: RS232
- Baud Rate: 115200
- Software: WINDOWS7/ WINDOWS 8 /XP/VISTA

Other Specification:

- Dimension: Head Ø115mm×56mm, Overall Height 180mm
- Weight: Approx.0.6kg
- Pressure Connection: 1/4NPT

Environmental:

- Operating Range: (-20~70) °C
- Humidity: <95%
- Atmosphere Pressure: (86~106) kPa
- Storage Temp.: (-40~85) °C

Software Features:

- a) Graphs Display: Display pressure data graph
- b) Real-time Recording: Real-time data acquisition and display during continuous recording
- c) Cursor Tracking: One click displays readings by time, value, parameter or sample number
- d) Data Table: Instantly access tabular view for detailed dates, times, values, and annotations
- e) Scaling Options: Auto scale function fits data to the screen, or allows user to manually enter their own values
- f) Formatting Options: Change colors, line style, plotting options, show or hide channels quickly.
- g) Statistics: Calculate averages, min., max., standard deviation
- h) Export Data: Export data in a variety of common formats, or switch to Excel with a single click
- i) Logger Configuration: Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
- j) Communication: Automatically sets up communications port or lets user select configuration
- k) Print: Print data table or graph automatically

Conventional Pressure Range Selection

No.	Pressure Range	Accuracy	Accuracy	Accuracy
DPR100-1	(-1~0)bar	0.05, G	0.1,G	0.2,G
DPR100-2	(0~0.16) bar	0.05, G	0.1,G	0.2,G
DPR100-3	(0~0.25) bar	0.05, G	0.1,G	0.2,G
DPR100-4	(0~0.4)bar	0.05, G	0.1,G	0.2,G
DPR100-5	(0~0.6) bar	0.05, G	0.1,G	0.2,G
DPR100-6	(0~1)bar	0.05, G	0.1,G	0.2,G
DPR100-7	(0~1.6)bar	0.05, G	0.1,G	0.2,G
DPR100-8	(0~2.5) bar	0.05, G	0.1,G	0.2,G
DPR100-9	(0~4) bar	0.05, G	0.1,G	0.2,G
DPR100-10	(0~6) bar	0.05, G	0.1,G	0.2,G
DPR100-11	(0~10) bar	0.05, G	0.1,G	0.2,G
DPR100-12	(0~16) bar	0.05, G	0.1,G	0.2,G
DPR100-13	(0~25) bar	0.05, G	0.1,G	0.2,G
DPR100-14	(0~40)bar	0.05, G	0.1,G	0.2,G
DPR100-15	(0~60)bar	0.05, G	0.1,G	0.2,G
DPR100-16	(0~100)bar	0.05, G	0.1,SG	0.2,SG
DPR100-17	(0~160)bar	0.05, G	0.1,SG	0.2,SG
DPR100-18	(0~250)bar	0.05, G	0.1,SG	0.2,SG
DPR100-19	(0~400) bar	0.05, G	0.1,SG	0.2,SG
DPR100-20	(0~600) bar	0.05, G	0.1,SG	0.2,SG
DPR100-21	(0~700) bar	0.05, G	0.1,SG	0.2,SG

Remark: Other pressure ranges are available. Contact Factory with specific requirement.

G=Gauge Pressure; SG=Sealed Gauge Pressure;

Bottom Connect thread : 1/4NPT.1/2NPT.G1/2 (Or custom-made)