EYS-80 intelligent digital pressure gauge

User manual | English translation

1. Product overview

The EYS-80 has a high-stability pressure sensor and provides real-time digital pressure indication. Its segmented wide-temperature LCD supports zero correction, backlighting, power switching, unit selection and a low-battery alarm. The 304 stainless steel case and process fitting resist vibration and suit media that do not corrode the wetted stainless steel.

2. Features

One-key zero correction and unit selection; temperature-compensated circuitry; four-and-a-half-digit segmented indication; display up to 110% of range; maximum/minimum recording; graphical battery level and pressure-percentage bar graph; white backlight; power from two replaceable AAA cells.

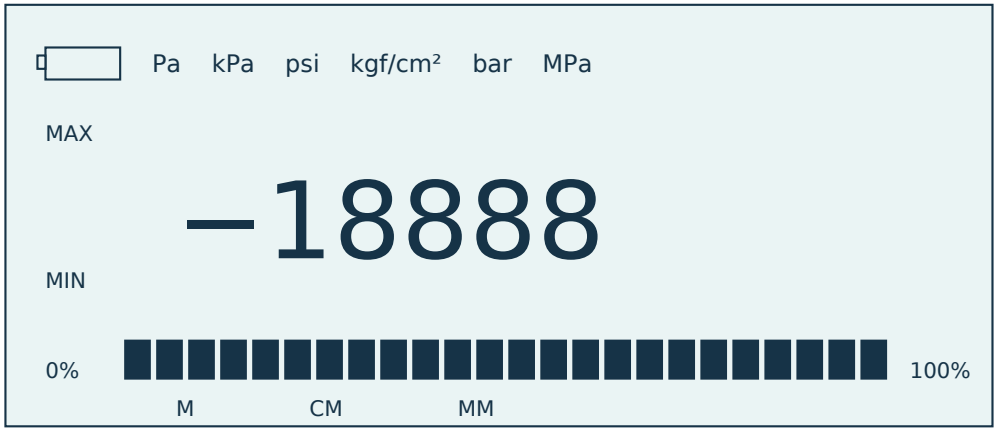
3. Technical parameters

Parameter	Specification in this manual
Range selections	−0.1 to 0 to 100MPa; additional 100–200MPa ranges
Pressure reference	Gauge, absolute or sealed gauge
Overload by range	Below 40MPa: 150%; 40–100MPa: 120%; 100–200MPa: 200%
Accuracy	±0.4% standard; 0.2% can be customized
Long-term stability	0.2%FS/year
Dimensions	Ø81mm × 131mm high × 47mm deep
Weight	Approximately 440g
Supply	3V from two AAA batteries
Battery life	At least 6 months, depending on actual operating conditions
Sampling	3 readings/s
Display	Four-and-a-half-digit segmented LCD
Backlight	White
Medium	Media compatible with stainless steel; flammable/explosive service must be specified separately
Peak-value recording	Available
Case and connection material	304 stainless steel

The 110% display capability is an indication limit, not a permitted continuous operating pressure. The original overload bands both include the 100MPa boundary; select the rating for the actual sensor/range configuration.

Display, keys and peak recording

4. Display symbols



Symbol	Meaning
Pa, kPa, psi, kgf/cm², bar, MPa	Selectable pressure units
MAX	Maximum recorded pressure
MIN	Minimum recorded pressure
Battery icon	Battery charge level
0–100% bar graph	Pressure as a percentage of range
M, CM, MM and other marks	System-parameter indications; no additional conversion function is specified in the manual

5. Key functions

Key	Operation
Power	Switch the gauge on or off
UNIT	Short press: change the pressure unit
ZERO	Hold for 3 seconds: correct zero error
Backlight	Short press: turn the backlight on or off

6. Maximum and minimum values

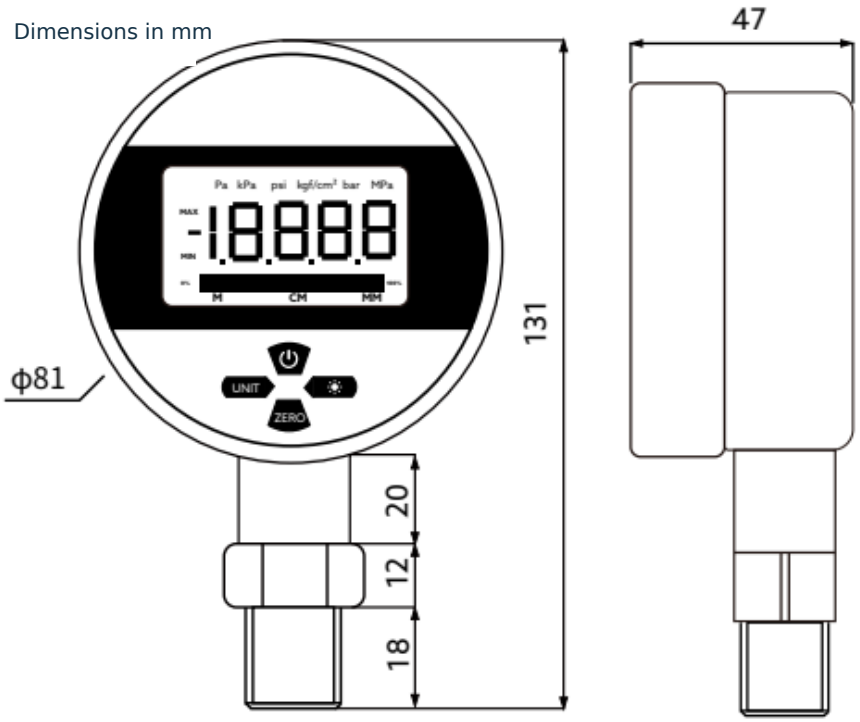
Hold UNIT for 3 seconds to show MAX, the highest pressure recorded since the last reset. Briefly press UNIT to show MIN, then briefly press UNIT again to leave the record display.

While MAX or MIN is shown, hold ZERO for 3 seconds to clear the stored records and start recording again.

The display drawing contains psi in addition to the units listed in the source symbol table; all six visible pressure units are retained here.

Dimensions and installation

Dimensions in mm



Dimension	Value, mm
Case diameter / overall height / depth	81 / 131 / 47
Neck / hex / thread sections	20 / 12 / 18

7. Installation

For ranges above 1MPa, the measurement is not affected by installation direction. For ranges below 1MPa, vertical installation is the default. The gauge supports vertical or horizontal mounting subject to that low-range condition.

Use a suitable wrench on the process-connection hex when installing or removing the gauge. Do not tighten by turning the dial or housing. Keep the measured pressure within the configured range.

At zero applied pressure, correct any nonzero reading with ZERO before use.

8. Precautions

Read the instructions and operate within the specified parameters. Turn the backlight off when it is not needed to extend battery life. Remove the batteries during long storage.

Diffused silicon is the default sensing construction; glass-microfused and strain sensors can be customized. Do not dismantle the gauge or touch its diaphragm. Flammable or explosive media require a separately specified suitable configuration.

Warranty and document information

9. Warranty and service

The source warranty period is one year. Batteries are consumables and are excluded. Product-quality faults within the warranty period are repaired free of charge.

Repairs for problems caused by misuse incur a material charge. The source excludes consequential liability arising from product-quality problems.

Manufacturer information

Yueqing ELECALL Electric Co., Ltd.
Address: Building G, Science and Technology Entrepreneurship Centre, Yueqing Economic Development Zone, Zhejiang, China.
Telephone: 0577-62792850.

Configuration notes

The standard manual configuration has ±0.4% accuracy, a customizable 0.2% option, approximately 440g mass and 0.2%FS/year stability.

The 200% overload entry applies to the separate 100–200MPa configuration. Use the overload rating of the selected range, particularly at the 100MPa boundary.

Use the stated orientation rules for ranges above and below 1MPa. The exact 1MPa installation orientation and the functions of the M, CM and MM display marks are not specified here.