



Handbook

ABDT-YBY-108 Digital Pressure Gauge

Weifang AOBO Instrument Technology Development Co.,Ltd



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I. Description

ABDT-YBY-108 Intelligent Digital Pressure Gauge is electronic-structure and battery-powered, which make it very easy for on-site installation. Specifically, a high-precision piezo-resistive pressure sensor is used and the output signal is processed by the high-precision, low temperature drifting amplifier, then sent into the high-precision A/D converter to be converted into digital signal, after being computed and processed, the actual pressure value is showed on the LCD screen.

It has some benefits: flexible use, simple operation, easy debugging, safe, reliable etc. So they have been widely used in hydro-power, water, petroleum, chemical, mechanical, hydraulic and other industries to measure and display the pressure of the fluid medium.

II. Features

- ◆ Large-screen LCD display, back light, high resolution, easy to read.
- ◆ Automatically record the maximum pressure values during the measurement.
- ◆ Pressure on the percentage of dynamic display, (the progress bar display).
- ◆ Five engineering units: psi, bar, kpa, Mpa, kg / cm².
- ◆ 1 ~ 15min auto-off feature.
- ◆ Micro-power consumption, work over 2 years in power-saving mode, 2,000 hours continuous work.
- ◆ Parameter correction, correct zero and error in field application.
- ◆ Pressure range already set before use.
- ◆ Sampling rate: 4 times / sec.
- ◆ Applicable to gases and liquids compatible with stainless steel.

III. Specifications

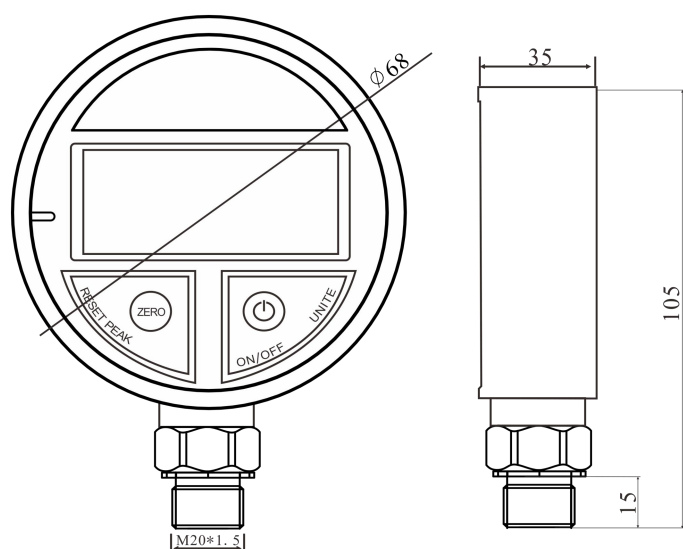
Pressure range	-0.1~0~100MPa	Accuracy	0.5%
Overload capacity	200%	Pressure type	Gauge pressure
Stability	≤0.1% /year	Battery voltage	9VDC
Display	LCD	Display range	-1999~9999
Application temperature	-20℃~70℃	Relative humidity	≤80%

Mounting thread	M20*1.5	Interface material	Stainless steel
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IV. Installation

ABDT-YBY-108 can be directly mounted in the hydraulic pipe on the road through the mounting thread(M20*1.5). In critical applications,such as severe vibration or shock, soft hose is strongly recommended to connect the digital pressure gauge to reduce the effect caused by the sever vibrations and shocks.

V. Dimension(as right photo)



VI. Operation Instructions

- ◆ Open or close the gauge: short time press "ON / OFF" button,
- ◆ Shift engineering unit: long time press "ON / OFF" button,
- ◆ Clean the peak pressure value: short time press "ZERO" button
- ◆ Clean the showing pressure value: long time press "ZERO" button (Note: only available when without any pressure)

When setting menus, buttons and their functions:

ZERO button: short press it to modify the currently flashing values, long press it shift the digit, for example, from 0000 to 0000.

ON/OFF button: short press it to change the currently flashing value (when the digit is

flashing) or confirm the above the change(when flashing stops).

Some setting menus

Locd: password input menu,input password 1000.

Offt: auto-off time menu,available time,00~15minutes,00 means no auto-off function.

Bclt: back light time menu,available time,00~15minutes,00 means no back light function.

End-: exit menu,0 or 1.0 means exiting without keeping the previous setting records,1 means exiting with keeping the previous setting records.

How to set auto-off time and back light time by yourself

1.Press "ZERO"button and"ON / OFF" button at the same time, when "lock"shows in the small screen, input 1000,then press "ON / OFF "button to confirm,then into menu-setting situation,

2.Short press "ZERO"button to choose the menu,

3.Short press "ON/OFF"button to change the value,

4.Short press "ON/OFF"button to confirm the change of the value

5.Short press ZERO "button to choose "end-"menu,when "1" appears, press "ON/OFF" button to keep the change, then exit all menus.

VII. User notes

1)Stored and used in an environmental temperature of $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$,the relative humidity less than 80%.

2)Should be concentric and parallel when connect digital pressure gauge and pressure system.

3)Please use 9V alkaline battery(6LR61) when replace the battery.

4)When installing the gauge,please use right way



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