

User Manual



## DPR302/DPR305

DPR302 - Differential Pressure Manometer (2PSI)

DPR305 - Differential Pressure Manometer (5PSI)



## ***Introduction***

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Thank you for selecting the Triplet DPR302 Differential Pressure Manometer. This device measures gauge and differential pressure in the range of  $\pm 2.000$  psi. The DPR302 offers eleven (11) units of measure (user selectable by front panel pushbutton) and has a differential input that uses convenient quick-disconnect fittings. Advanced features include DATA HOLD, MIN-MAX-AVG RECORD mode, ZERO/OFFSET, AUTO POWER OFF

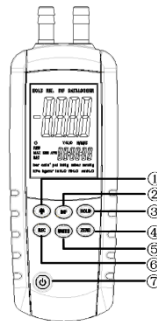
## ***Description***

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### **Buttons**

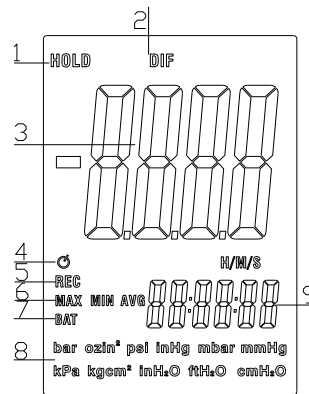
The meter has six buttons.

1. BACKLIGHT
2. DIF
3. HOLD
4. ZERO
5. UNITS
6. REC
7. ON/OFF



### Display Description

1. Hold Function
2. Differential Mode
3. Primary Data screen
4. Auto Power Off
5. Record Mode
6. MAX/MIN/AVG
7. Low Battery indicator
8. Pressure Unit indicator
9. Relative Time Clock



### Operation

#### Power

Press the **ON/OFF** button to turn power on or off. The meter will perform a short self-test when turned on. The meter defaults to the setting used during the last operation.

#### Zero Adjust and Offset

Before use and without fittings attached to the meter, press the **ZERO** button for more than 2 seconds to zero the meter. The meter will reset and display "oooo"

from right to left. **0.000** will be display.

If it is desired to offset the meter and display, press the **DIF** button while taking a measurement. Subsequent reading will be the difference between the current measurement and the

measurement that was on the display when the **DIF** button was pressed.

### Data Hold

Press the **HOLD** button momentarily to freeze the displayed reading. The '**HOLD**' icon will appear on the upper left-hand side of the display. If the pressure value is over the range, error codes will show on the screen.

Press the **HOLD** button again to return to normal operation.

### Record

The MAX/MIN mode allows the user to view only the highest (**MAX**) , lowest (**MIN**) or average (**AVG**) readings with relative time stamp.

1. Press the **REC** button once and **REC** appears on the display (All other functions are locked out except for Power & Backlight). The relative time clock also appears in the secondary display and starts counting.
2. Press the **REC** Button again and **MAX** appears on the display .The display is now showing the maximum pressure and relative time that it was recorded.
3. Press the **REC** button to display the minimum **MIN** reading with the relative time.

4. Press the **REC** button to display the average value **AVG** reading with the relative time.
5. Press the **REC** button again to continue recording MAX/MIN /**AVG** measurements.
6. To exit the **MIN/MAX/AVG** mode, press the **REC** button for 3 seconds to return to normal operation.

### **Backlight Display**

Press the **Backlight** button to turn on the backlight. It will remain on for 40 seconds.

### **Automatic Power Off (APO)**

The meter will automatically shut off after 20 minutes to conserve battery life. To disable Auto Power Off , hold down the HOLD button and turn on the meter on , An “n” will appear in the display indicating that Auto Power Off mode is disabled. The meter will return to normal operation when it is turned off.

### **Units**

Press the Unit button momentarily and the meter will cycle through the 11 available units of measure as indicated by the cursor on the bottom of the display.

## Error Codes

An error message will appear on the display if the meter fails an internal diagnostic test. And it will freeze all the buttons.

- Err.1: Pressure value is over the range.
- Err.2: Pressure value is below the range.
- Err.3: DIF function, the differential pressure value is over range.
- Err4: DIF function, the differential pressure value is below range.

## BATTERY REPLACEMENT

When the battery is LOW, "BAT" will appear on the LCD. Replace the battery.

**Battery Safety Notes:** Please dispose of batteries responsibly; never dispose of batteries in a fire, batteries may explode or leak. If the meter is not to be used for 60 days or more, remove the battery and store separately.



Never dispose of used batteries or rechargeable batteries in household waste.

As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

**Disposal:** Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

## Specifications

Display	Dual LCD
Accuracy	±0.3%FSO ( 77°F/25 °C )
Repeatability	±0.2% (Max.+/-0.5% FSO)
Linearity/Hysteresis	±0.29% FSO
Pressure Range	± 2 psi (DPR302) ± 5 psi (DPR305)
Maximum Pressure	10psi(DP302)/20psi (DP305)
Response Time	0.5 Seconds typical
Low Battery Indicator	Yes
Over range Indicator	Err.1
Under range Indicator	Err.2
Operating Conditions	32°F to 122°F ( 0 to 50°C)
Storage Conditions	14 to 140°F ( -10 to 60°C)
Power Supply	(3)1.5V "AAA" batteries

### **DPR302**

Function	Range	Resolution	Function	Range	Resolution
inH2O	55.40	0.01	<sup>2</sup> ozin	32.00	0.01
psi	2.000	0.001	ftH2O	4.612	0.001
mbar	137.8	0.1	cmH2O	140.6	0.1
kPa	13.79	0.01	kgcm <sup>2</sup>	0.140	0.001
inHg	4.072	0.001	bar	0.137	0.001
mmHg	103.4	0.1			

### **DPR305**

Function	Range	Resolution	Function	Range	Resolution
inH2O	138.4	0.1	<sup>2</sup> ozin	80.00	0.01
psi	5.000	0.001	ftH2O	11.53	0.01
mbar	344.7	0.1	cmH2O	351.5	0.1
kPa	34.47	0.01	kgcm <sup>2</sup>	0.352	0.001
inHg	10.18	0.01	bar	0.345	0.001
mmHg	258.6	0.1			

## ***Warranty***

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Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty

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