

# Waterproof Pressure Meters

## One meter—multiple pressure scales

All generally-used pressure scales are standard in each instrument, practically eliminating the need to purchase extra meters as measurement requirements change. Each model has a carefully selected measurement range and can measure positive and negative (vacuum) gauge or differential pressures.

Measurements, including maximum and minimum readings, can be held and displayed in any available scale. The adjustable zero value, to compensate for ambient temperature fluctuations, is also permanently held in memory, until changed by the user.

The selectable, averaged reading function provides a further aid to accuracy by filtering out transient readings to give a more stable displayed reading. Each instrument can display its maximum pressure and has over-range indication.

- Multiple pressure scales with selected scale held in memory
- Intrinsically safe models come with carrying case
- Stylish, rugged ABS case, dust- and waterproof to IP67, BS EN 60529 and IEC 529
- Choice of four ranges:  
0 to  $\pm 2$  psi / 0 to  $\pm 140$  mbar  
0 to  $\pm 5$  psi / 0 to  $\pm 350$  mbar  
0 to  $\pm 30$  psi / 0 to  $\pm 2000$  mbar  
0 to  $\pm 100$  psi / 0 to  $\pm 6900$  mbar
- High accuracy
- Selectable auto switch-off
- Gauge (single input) or differential (double input) measurement of positive and negative (vacuum) pressures
- Adjustable zero value to compensate for ambient temperature
- Records maximum and minimum pressures
- Hold function with held readings displayed in any scale
- Averaged reading function to filter out transient readings

### SPECIFICATIONS

| Units of measure                        | Model No.  | C9551 / C9501IS                               | C9553 / C9503IS    | C9555 / 631100     | C9557 / 631102        |
|---|------------|---|--------------------|--------------------|-----------------------|
| psi                                     | Range      | 0 to $\pm 2$                                  | 0 to $\pm 5$       | 0 to $\pm 30$      | 0 to $\pm 100$        |
|   | Resolution | 0.001   | 0.001              | 0.01               | 0.1                   |
| mBar                                    | Range      | 0 to $\pm 140$                                | 0 to $\pm 350$     | 0 to $\pm 2000$    | 0 to $\pm 6900$       |
|   | Resolution | 0.1   | 0.1                | 1                  | 1                     |
| in. H <sub>2</sub> O                    | Range      | 0 to $\pm 55$                                 | 0 to $\pm 140$     | 0 to $\pm 830$     | 0 to $\pm 2750$       |
|   | Resolution | 0.01  | 0.1                | 0.1                | 1                     |
| in. Hg                                  | Range      | 0 to 4  | 0 to $\pm 9.999$   | 0 to $\pm 61$      | 0 to $\pm 200$        |
|   | Resolution | 0.001   | 0.001              | 0.01               | 0.1                   |
| Torr                                    | Range      | 0 to $\pm 99.99$                              | 0 to $\pm 260$     | 0 to $\pm 1500$    | 0 to $\pm 5200$       |
|   | Resolution | 0.01  | 0.1                | 1                  | 1                     |
| Pa                                      | Range      | 0 to $\pm 9999$                               | —                  | —                  | —                     |
|   | Resolution | 1   | —                  | —                  | —                     |
| kPa                                     | Range      | —   | 0 to $\pm 35$      | 0 to $\pm 200$     | 0 to $\pm 690$        |
|   | Resolution | —   | 0.01               | 0.1                | 0.1                   |
| mm H <sub>2</sub> O                     | Range      | 0 to $\pm 1400$                               | 0 to $\pm 3500$    | —                  | —                     |
|   | Resolution | 1   | 1                  | —                  | —                     |
| cm H <sub>2</sub> O                     | Range      | —   | —                  | 0 to $\pm 2100$    | 0 to $\pm 7000$       |
|   | Resolution | —   | —                  | 1                  | 1                     |
| kg cm <sup>2</sup>                      | Range      | —   | —                  | 0 to $\pm 2.1$     | 0 to $\pm 7.0$        |
|   | Resolution | —   | —                  | 0.001              | 0.001                 |
| Maximum over/under pressure             |            | 6 psi / 400 mbar                              | 15 psi / 1000 mbar | 90 psi / 6200 mbar | 200 psi / 13,700 mbar |
| Accuracy                                |            | $\pm 0.2\%$ of full scale at 23°C             |                    |                    |                       |
| Repeatability                           |            | $\pm 0.1\%$ of full scale at 23°C             |                    |                    |                       |
| Mean temperature coefficient of reading |            | Better than 0.1% per °C                       |                    |                    |                       |
| Operating temperature                   |            | 32 to 122°F (0 to 50°C)                       |                    |                    |                       |
| Environmental rating                    |            | IP67, BS EN 60529, IEC 529                    |                    |                    |                       |
| Protection levels (IS models only)      |            | EEx ia IIC T4, BASEEFA Certificate EX 95C2454 |                    |                    |                       |
| Process connections                     |            | $\frac{1}{8}$ " BSP female                    |                    |                    |                       |
| Power                                   |            | 9 V PP3 6F22 - MN1604 UCAR9V, 90 hours        |                    |                    |                       |



68610-04

| Catalog No.                      | Model No. | Description                                     |
|----------------------------------|-----------|---|
| <b>General-purpose meters</b>    |           |   |
| TS-68467-35                      | C9551     | Pressure meter $\pm 2$ psi                      |
| TS-68610-10                      | C9553     | Pressure meter $\pm 5$ psi                      |
| TS-68610-12                      | C9555     | Pressure meter $\pm 30$ psi                     |
| TS-68610-14                      | C9557     | Pressure meter $\pm 100$ psi                    |
| <b>Intrinsically safe meters</b> |           |   |
| TS-68467-33                      | C9501IS   | Intrinsically safe pressure meter $\pm 2$ psi   |
| TS-68467-34                      | C9503IS   | Intrinsically safe pressure meter $\pm 5$ psi   |
| TS-68610-02                      | 631100    | Intrinsically safe pressure meter $\pm 30$ psi  |
| TS-68610-04                      | 631102    | Intrinsically safe pressure meter $\pm 100$ psi |
| <b>Accessories</b>               |           |   |
| TS-68467-39                      | CRS1      | Protective rubber boot                          |
| TS-09386-04                      | —         | Replacement batteries, 9 V. 4/pk                |
| <b>TS-17100-31</b>               | —         | <b>NIST-traceable calibration with data</b>     |