advanced weighing technology . . . by any measure

Fill, Bleed & Read
Tire Pressure Gauge
Users Manual

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Manual #: 700320 Rev. E

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WARNING:

TO PREVENT THE POSSIBILITY OF INJURY DURING TIRE INFLATION, HOLD THE NOZZLE FIRMLY WHEN DEPRESSING THE AIR INLET BUTTON.

DO NOT EXCEED 150 PSI OR 10 BAR OF PRESSURE AT THE INLET.

Declaration of Conformity

CE

We, Intercomp Company
3839 County Road 116
Medina, Minnesota 55340 USA

Declare under sole responsibility that the Fill Bleed and Read Gauge to which this declaration relates meets the essential health and safety requirements and is in conformity with the relevant EC Directives listed below using the relevant section of the following standards and other normative documents.

2001/95/EC - on general product safety
2004/108/EC - relating to electromagnetic compatibility and replacing Directive 89/336/EEC
EN 55011:2009, Class B - Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement
EN61000-6-1:2007 - Generic standards, Residential, commercial and light industry environment
EN 61000-6-2:2005 - Immunity for industrial environments
EN 61000-6-3:2007 - Emission standard for residential, commercial and light-industrial environments
2006/42/EC - on machinery, and amending Directive 95/16/EC (recast)
2012/19/EU - on waste electrical and electronic equipment (WEEE) (Directive 20/96/EC Recast)
2013/56/EU amending Directive 2006/66/EC on batteries and accumulators

This product complies with all safety-relevant provision referring to protection against electrical hazards and other hazards, such as mechanical hazards, fire hazards, noise and vibration. The safety issues of this measurement equipment have been evaluated under the self-certification provisions of the relevant directives.

The related technical construction files are held for inspection in the U.K. at Intercomp Europe Limited.

The CE mark and WEEE marks must be affixed as required in the directives.

Mark Browne / Quality Manager
June 24, 2014

Specifications

Controls

General:	Zero, On/Off, backlight
Display:	4 digit LCD.

Electrical

Batteries:	1 (9-volt) size disposable alkaline or rechargeable Nickel-Cadmium cell.
Internal resolution:	24 bit A/D delivers over 16,000,000 internal counts
Operating pressure:	150 x 0.1 PSI, 10 x 0.01 Bar, or 10 x 0.01 kg/cm^2 (keypad switchable)
Auto-Zero:	Automatically zeros off errors of zero-pressure.
Battery life:	300 hours with an alkaline battery 20 hours with backlight on
Low battery indication:	Flashes 'batt' when battery is running low; Automatically turns off when battery power is low enough to affect reliability.

Performance

Accuracy:	±0.1%
Capacity / resolution:	150 psi x 0.1 psi

Environmental

Humidity:	10 to 95% Non-Condensing.
Ambient Temperature:	Operating: -10° C to +45° C / +14° F to +113° F.
	Storage: -40° C to +75° C / -40° F to +167° F.
Air Pressure Temp:	-10° C to +65° C / +14° F to +149° F.
Max Inlet Pressure	150 PSI / 10 Bar

Physical

Dimensions:	Housing: 3.2” x 4.3” x 1.5” / 8.1cm x 11cm x 3.8cm.
	Hose: 29” / 74cm.
	Weight: 1 lb / 0.45kg.

Operations

Controls

On/Off

Press this button to turn the tire gauge on. The unit quickly tests itself and when these tests have completed successfully, the system begins measuring. Press this button again to turn the unit off. As the gauge turns off it will briefly display its version number. The gauge has a 10 minute auto-off feature. If there is no change in pressure or any key pressed for 10 minutes, the gauge will automatically shut off.

Backlight

Press this key to toggle the backlight on and off.

ZERO

Tells the tire gauge to display a zero pressure. If ZERO is pressed with pressure on the gauge, that pressure becomes the zero condition. When this pressure is removed, a negative pressure shows until the unit is zeroed again.

The gauge contains a feature called Auto Zero Tracking (AZT), which corrects for slight zero changes during normal operation. If small pressures are added slowly, the tire gauge can zero them off.

Units Switching (PSI - Bar - kg/cm^2)

The tire pressure gauge can toggle between PSI, Bar, and kg/cm^2. To switch units simultaneously press and hold the ZERO and backlight keys. After pressing and holding these keys for a few seconds, the unit will momentarily display:

1) "PSI", if you have now switched to display in PSI.
2) "BAR", if you have now switched to display in Bars.
3) "C2", if you have now switched to display in kg/cm^2.

Connecting Unit to Input Air or Nitrogen Supply

Warning Do not exceed 150 PSI or 10 Bar of pressure at the inlet.

Warning The nozzle must be held at all times while in use.

Connect the input pressure hose to the Fill Bleed and Read unit. Connect the nozzle to the tire you are filling.

Fill Button

Press the fill button to dispense air or nitrogen into the tire.

Bleed Button

Press the bleed button to release air or nitrogen from the tire.

Peak hold mode

To get into peak hold mode simultaneously press and the ZERO and backlight keys. (The Internal calibration blocking shunt must be in place). The unit will momentarily display "PEAH". In peak mode the display will show only the highest pressure applied to the gauge. To exit peak hold mode, press the ZERO and backlight keys simultaneously. The display will show "nor" for a few seconds and return to normal mode.

NOTES: The unit will always turn on in 'normal' operating mode. During normal mode, the tire pressure gauge takes 4 readings per second. During peak mode, the tire pressure gauge is increased to 25 readings per second (in order to better capture the true peak pressure).

Changing the Battery

Turn the power off. Remove the 2 screws on the back of the gauge to remove the battery access panel. Replace the battery and attach the access panel with the 2 screws.

Error Messages

Message	Meaning
'EEPE'	**EEPROM FAILURE Calibration information lost or corrupted**
Calibration information is held in a special permanent memory area. A checksum code is generated and written to this memory during the calibration process. Each time the power is turned on this code is regenerated and compared to the stored value. If a change is found this error message is displayed. Recalibration may clear the error display, but if the problem persists the control panel will have to be replaced.	
'Ad 1'	**A/D converter failure**
The A/D circuit board has indicated a fault and needs to be repaired or replaced.	
'LCb 1'	**Power-up Self Test has detected a pressure sensor error**
The pressure sensor may have failed or there is a bad connection. If the pressure sensor resistance checks are good then the A/D circuit board has indicated a fault and needs to be repaired or replaced.	
'LC 1'	**Run-time checking has detected a pressure sensor error**
The pressure sensor circuit may have failed or there is a bad connection. . If the pressure sensor resistance checks are good then the A/D circuit board has indicated a fault and needs to be repaired or replaced.	
'L.bAt'	**Low battery voltage**
This message displayed intermittently indicates that the control panel has measured the battery voltage and found it to be too low. The most likely cause is that the batteries may need to be changed. If a new set of batteries fail to correct the situation, then the control panel may need to be replaced. Also check the battery holder and wiring.	
'CAP'	**Overload or calibration information lost or bad pressure sensor**
The control panel has detected a pressure reading that is larger than expected. This may be caused by the application of too much pressure to the sensor. If this display is seen when there is no pressure applied, then the most likely causes are a defective sensor or defective control panel. To isolate the problem, measure the signal across pins two and three on the pressure sensor connector on the control panel. This should be between zero and +/-one millivolt. If found to be higher or lower, then the sensor is defective. If the signal is within this range then the calibration data may be lost. Attempt to recalibrate the gauge. If this does not clear the problem, then replace the control panel.	
'ZEr0'	**Zero Range Error**
Gauge tried to zero off a pressure outside the range specified in the zero range setting. Remove any pressure and press zero.	
'HELd'	**Key is held down**
If this message is displayed with no key pressed examine the key pad and key pad connector ribbon.	
'd iSP'	**Number can't be displayed**
The most common cause of this error is pressing the zero key with a full pressure on the gauge. When the pressure is removed, the full number with a minus sign will not fit on the display. Pressing the zero key again will clear this display.	

How to reach Intercomp Service Dept.

Things to know:

- Inform the Service Dept. that the product is a Fill, Bleed & Read pressure gauge.
- When was the gauge purchased?
- Where was the gauge purchased?

For Intercomp Service call or fax:

(763)476-2531
Toll Free in the US: **1-800-328-3336**
FAX # (763) 476-2613