



Features

- Ethernet 10/100BaseT communications with PLC's and computers.
- Standardised Gain enabling replacement without the need for vessel emptying or re-calibration.
- Adjustable filtering, down to 0.2Hz, for elimination of the effects of mechanical vibration.
- DIN Rail or wall mount options.
- Security code protected calibration.
- 2 trip relay outputs

Description

The PR486E connects with a single set of 1 to 4 strain gauge load cells. It supplies 10V DC excitation and amplifies and conditions the resultant return signal. From this signal and from stored control and calibration data it generates a Gross/Net Weight signal for display and for transmission to PLCs and computers via its 10/100BaseT fast Ethernet connection.

Powerful 'System On Chip' technology provides 24 bit (16,000,000 counts) internal resolution, which, combined with drift compensation, provides outstanding levels of accuracy and stability.

Technical Data

Model No:

PR486E AC powered.
Add suffix 'D' for DC powered option ie PR486E-D

Power Supply:

Universal fused power supply 85-264VAC, or 12-36VDC (PR486E-D only)

Load Cell Excitation:

10V DC @ 125mA max, 1 to 4 x 350 ohm load cells may be connected in parallel, 4 or 6 wire for volt drop compensation in long cables.

Input Range:

0-20mv min
0-2.5v max

Filter:

0.2 to 20Hz active low pass.

Resolution:

Internal : 16,000,000 counts
External: 65,000 divisions

Ethernet Connection:

RJ45 connector, 10/100 BaseT
Protocol: TCP/IP
Operating modes: TCP Server / UDP

Trip Relay Outputs:

240VAC or 30VDC maximum, 5A rated

Enclosure:

DIN rail mounting IP30 protection
140mm wide x 128mm high x 60mm
Optional IP65 enclosure
180 x 180 x 75mm

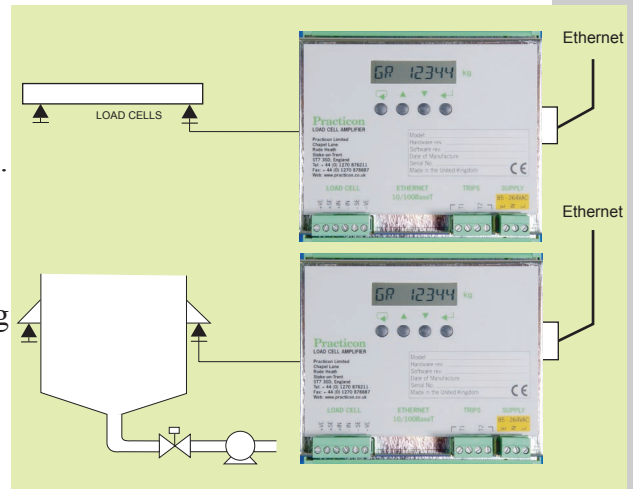
Environment:

Operate 0-50°C, Storage -40 to 80°C
20-80% RH, non-condensing.

Calibration

Calibration adjustments are performed by means of the four push-buttons in conjunction with the LCD display. Access to calibration data is pass-number protected.

Each PR486 is factory calibrated to have the same precise input range. This facilitates unit replacement, without the need for vessel emptying or recalibration, by entry of zero and gain coefficients.



The weigher may be calibrated using a single test weight; often of considerably lower weight than the weigher capacity.

The data parameters and procedures are:

ZR ZERO. Operate ENTER then ▼ and ENTER again to zero the weigher.

CA CALIBRATION. Load known test weight, operate ENTER, use ▲, ▼, & [↩] keys to enter test weight value and ENTER again to complete the calibration.

CC CALIBRATION COUNTER. Indicates the number of calibrations completed to date.

In addition to the conventional method, calibration can be achieved by entry of the precise sensitivity and capacity figures from the load cells.

Preset Trip Outputs

Two preset trip relay outputs are provided. They have separate level, deadband and high/low sense settings.

Ethernet Communications

The following weigh data is accessible:

ETHERNET MASTER INPUTS	OUTPUTS
Gross/Net Weights & 2 Trip Flags	Zero/Tare Flags

A simple communications protocol is supported for easy implementation within the host system.

Alternatively, a Comm Object software module is available which enables access directly from the users application.

Supplied by:



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