

Load Cell Indicator Hand Held PSD Unit

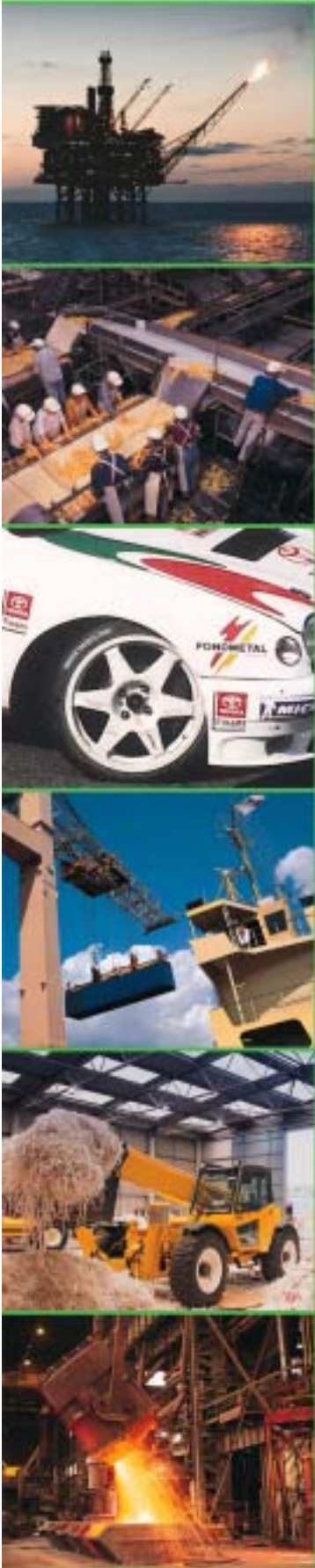


INTRODUCTION

- Portable strain gauge battery powered indicator.
- Robust IP65 Case.
- Two separate ranges are available to enable the operator to read and display two units of measure.
- Peak / valley capture.

FEATURES

- Powered by 2 x AA internal batteries.
- Indicator weighs only 250 grms.
- Microprocessor based, allowing single pass calibration facility.
- 7 ½ digit LCD display.
- Auto sleep facility.





Procter & Chester Measurements

Specifications:

PARAMETER	MIN	TYP	MAX	UNITS
Non Linearity	-	0.001	0.005	%FR
Internal Resolution	-	24	-	Bits
Resolution at 1 Hz sample rate	-	250,000	-	Counts/divisions
Resolution at 10Hz sample rate	-	65,000	-	Counts/divisions
Temperature effect on zero	-	0.0002	0.0007	±%FR/°C@2.5mV/V
Temperature effect on span	-	0.0002	0.0005	±%/°C
Offset stability	-	0.002	0.008	±%FR
Gain stability	-	0.003	0.01	% per annum
Excitation voltage	4.8	5	5.2	Vdc
Strain gauge impedance	85	350	5000	Ohms
Sensitivity full range, setting 1	-5	-	+5	mV/V
Sensitivity full range, setting 2	-50	-	+50	mV/V
Filter cut-off (Switchable ranges) – 3d B point	1	-	5000	Hz

ADDITIONAL INFORMATION	
Input type	Strain Gauge Full Bridge Sensors
Battery life	With 350 ohm sensor continuously on 35hrs or up to 5000hrs in low power mode
Update rate	10mS to 2s including peak/valley hold capture rate
Display Type	7 ½ LCD display, 8.8mm high digits
Annunciations	Low battery warning, trough, hold, net, shunt cal, range.
Settable parameters	Display resolution. Rate 0.5, 1, 3, 10, 100Hz. Low power modes
Calibration	By the front panel keypad buttons protected by sequence keys.
Electrical connection	5 pin Binder Socket (mating plug supplied)
Dimensions	90 x 152 x 34mm (depth)
Weight	250grms
Legends	Insert legend labels for the engineering units

CE & ENVIRONMENTAL	
Storage temperature	-40 to 65°C (excluding batteries)
Operating temperature	-10 to +50°C (excluding batteries)
Environmental rating	IP65 / NEMA (when mating plug fitted)
Enclose type	ABS, dark grey (optional black leather case)
Safety / Low Voltage	73/23/EEC amended by 93/68/EEC to IEC 1010-1:1990, EN61010-1-1993
EMC Directive	89/336/EEC
Emissions	EN 50 081-1 : 1992 (Light Industrial)
	EN 50 081-2 : 1992 (Heavy Industrial)
	Pr EN50 093 : 1991
EMC Immunity	EN 50 082-1 : 1992 (Light Industrial)
	EN 50 082-1 : 1992 (Heavy Industrial)

CE Approved

Document Revision Date : 0505

PCM produce custom design load cells, therefore we are able to modify the dimension and materials and build to order. PCM's policy is one of continuous improvement. We therefore reserve the right to incorporate technical modifications without prior notification. PCM are an approved ISO9001 manufacturer, Certificate No: 5527.