

# DIAPHRAGM—Compression Load Cell

## FEATURES



- Capacities 500—1000Kg
- Sealed to IP65.
- Accuracy 1%RO.
- Custom build dimensions available.

## APPLICATIONS

- General purpose use.
- Hoppers and small silos.
- Industrial Platforms.
- Test Rigs.

## DESCRIPTION

The C-DIA is a diaphragm design load cell produced from either aluminium or stainless steel depending on the capacity. Its low profile design allows it to be used in restricted height applications. If the capacities or dimensions do not suit your requirement, PCM's in house design and build service may be able to satisfy your requirements.

The units are supplied with calibration certificates using a BS EN ISO 7500-1 test machine traceable to national standards

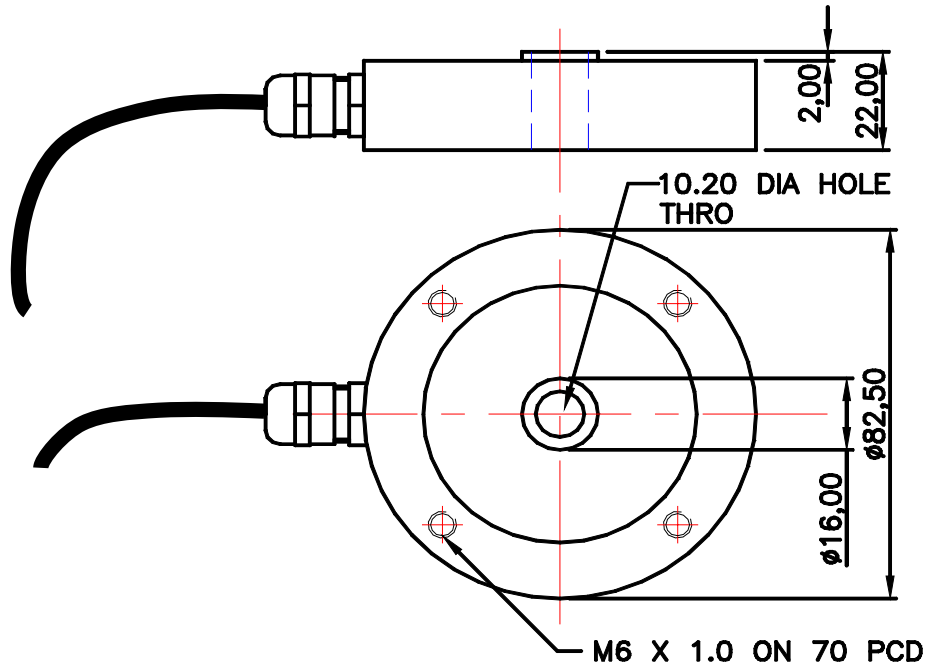
## TYPICAL SPECIFICATION

PARAMETER	VALUE	UNITS
Capacities Range	0.. 500, 1000	Kg
Rated Output	2.0 nominal	mV/V
Linearity & non repeatability	0.5-1.0	±% of Full Scale
Zero Return after 30 minutes	0.05	±% of Applied Load
Zero Balance	1.0	±% of Full Scale
Temperature Range: Operating	-30 to +80	°C
Temperature Range: Compensated	-10 to +70	
Temperature Effect: On Output	0.1	±% of Applied Load/°C
Temperature Effect: On zero	0.02	±% of Rated Output/°C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	300	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Excitation: Maximum	15	
Input Impedance	400 nominal	ohm
Output Impedance	350 nominal	ohm
Insulation Resistance	>2	GΩ at 50VDC
Deflection at Rated Capacity	NA	mm
Weight (approximate) :	NA	kg
Construction	500Kg Aluminium 1000Kg Stainless Steel	
Environmental Protection	IP65	
Cable	5m 4 core screened	

MODEL: C-DIA

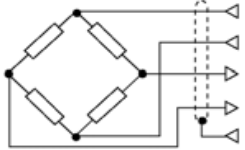
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OUTLINE DIMENSIONS in millimeters



NOTE: If the dimensions or specification do not suit, PCM have an in-house design and build service that should satisfy your requirements.

## WIRING DETAIL

Dynamometer	OUTPUT	CABLE
	EXCITATION+ EXCITATION - OUTPUT+ OUTPUT- -----	<i>Red</i> <i>Blue</i> <i>Yellow</i> <i>Green</i> <i>Shield*</i>

## LOADING MODE

