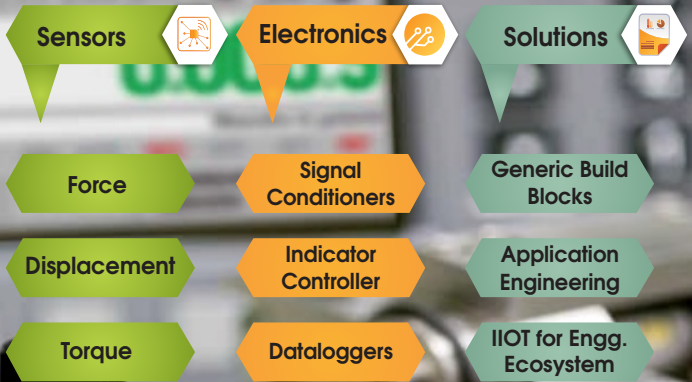




Rameshwar Engineering

Sensors for Automation



Distributors for

SeethaRam Mechatronics Pvt. Ltd.

Bridging Gaps in Technology

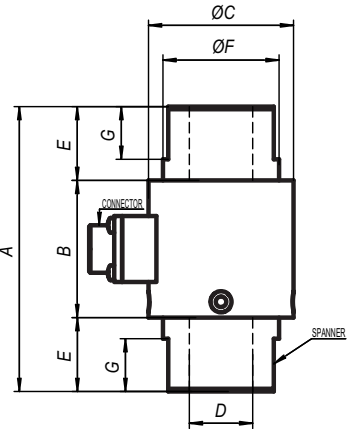


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FCIT - Force Column Internal Thread



- Model FCIT load cells have Female thread mounting and measure both tension & compression load force
- Construction for High Grade SS 17.4PH
- Customization to fit your dimensional needs.

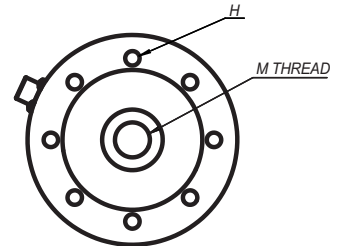
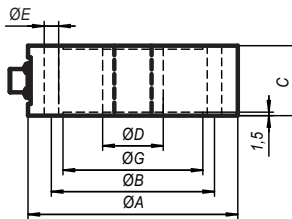


Dimensional Details

Unit : mm

Capacity	A	B	ØC	D	E	ØF	G
500 Kg, 1, 2tf	85	45	36	M12X1.25-20DP	20	30	15
3, 5tf	85	43	45	M20X1.5-22DP	21	38	15
7.5, 10tf	108	52	55	M24X2-29DP	28	44	21

FPT - Force Pancake Internal Thread



- Model FPT load cells have Female thread mounting and measure both tension & compression load force
- Construction for High Grade SS 17.4PH
- Customization to fit your dimensional needs.

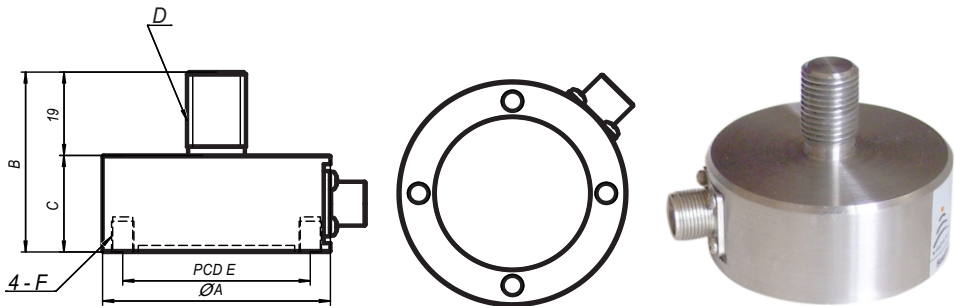
Dimensional Details

Unit : mm

Capacity	A	B	C	D	ØE-H	G	MTHREAD
1tf, 2tf, 5tf	90	70	30	26	Ø6.2- 8	60	M16X1.5
10tf	115	90	40	36	Ø10.2- 8	75	M30X2

FPMT - Force Pancake Male Thread

- Compression or Tension Load Cell.
- These load cells are extremely small and lightweight. Protection Class IP67.

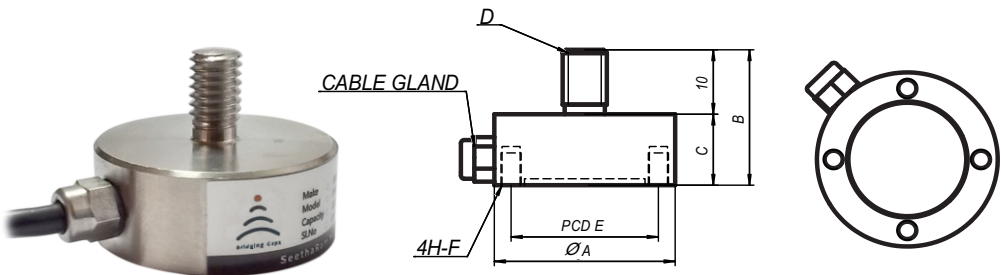


Dimensional Details

Unit : mm

Capacity	A	B	C	D	E	F
20, 50, 100, 200, 500Kg, 1Tf, 2Tf	51	41	22	M12x1.25-DP8	42	M5

FPMT(M) - Force Pancake Male Thread Miniature



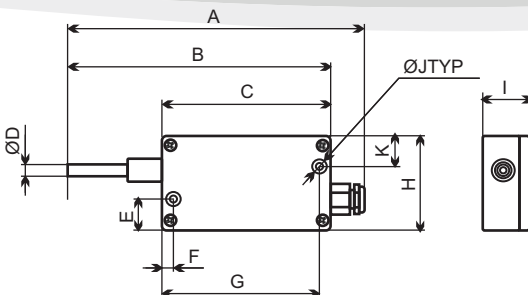
- Compression or Tension Load Cell.
- These load cells are extremely small and lightweight.
- Protection Class IP67.

Dimensional Details

Unit : mm

Capacity	A	B	C	D	E	F
20, 50, 100, 200 Kg	27	21	11	M6x1-DP6	22	M3x0.5

Gaman Pulse - Displacement Transducer



The GAMAN series linear displacement pulsed probe is a spring loaded plunger type precision linear measurement sensor. Standard stroke length ranges are 25 and 50mm. The in-built electronics support interface with low cost PLCs, thus making precision measurement a low cost solution.

STROKE	A	B	C	ØD	E	F	G	H	I	ØJ	K
25	126.70	112.30	72.00	5.00	13.00	5.00	67.00	40.00	19.50	3.15	13.00
50	199.00	184.60	119.00	5.00	13.00	5.00	114.00	40.00	19.50	3.15	13.00

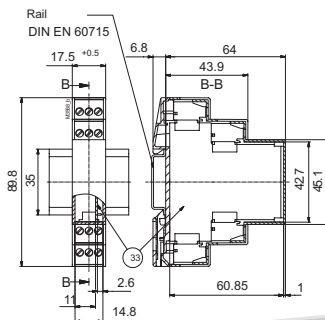
Model	G.P 25/50
Range	25mm, 50mm
Accuracy	12/6/3µm
Protection	IP60
Weight without Cable	160g / 220g

Free End Cable Wire	TTL Output	MODBUS Output
Brown	Power Supply +ve 5VDC	Power Supply +ve 24VDC
White	Power Supply -ve 0VDC	Power Supply -ve 0VDC
Green	A Signal	RS485 +ve
Yellow	B Signal	RS485 -ve
Grey	Index	GND

Sanket - S/Din-Rail - Strain Gauge Signal Conditioner

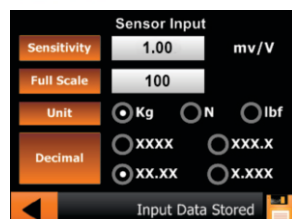
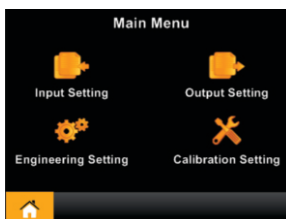
Sanket -S/ Din Rail signal Conditioners amplify and condition all varieties of strain gage based sensors, delivering highly accurate signal outputs. Sensors may be connected in 4-& 6-wire configurations. The modules offer adjustable excitation to energize load cells.

Technical Specifications	
Strain Gauge Signal	±80 mV (load cells, torque Transducers and pressure transducers.)
Supply voltage	15...30VDC
Full scale output	±10 VDC, ±5 VDC, 4-20mA
Inverse polarity protection	YES
Shortcircuit protection	YES



KOAL Touch Series

- 2.8 inch color TFT, Touch Screen Indicator Controller.
- User friendly special icons.
- KT - S: 80mV Strain Gauge Sensors
- KT - A: 0~10VDC & 0~20mA (Potentiometer, Pressure & other Amplified Output Sensors.)
- KT - G: Digital & KT-E: 5VTTL
- Peak, Tare option; PC interface on RS-232 / 485, optional USB



KOAL PRESS - Press Controller

Typical Press controls on most assembly machines involve a PLC, MMI with Load cells and Displacement sensors with Signal conditioners or Indicator controllers. This scenario has limitations. The major trade-off with Koal Press controller is 24-bit resolution and an integrated fast response control option touch screen interactive MMI for parameter set, recipe recall and value and status display.



Power Supply	12 ~ 35V DC
Excitation for sensor	+5VDC for Load cell @ 50mA $\pm 1\%$ +10VDC for Potentiometer
Input signal	Up to 8mV/V (Strain Gauge Sensors) 0-10VDC (Potentiometer)
Decimal point	1~3 Points user selectable (X.X, X.XX, XX.XX & X.XXX)
Input sampling	1 ~ 300 Samples Per Sec User configurable (ADC > 1000 Samples Per Sec)
A/D Converter	24 bit resolution
Display	2.8 inch TFT, Touch Screen, Color
Display update speed	1 ~ 32 Samples Per Sec User Configurable
Relay output for Load Cell	2 Relay (5A/230VAC)
Relay output for Displacement	2 Relay (5A/230VAC)

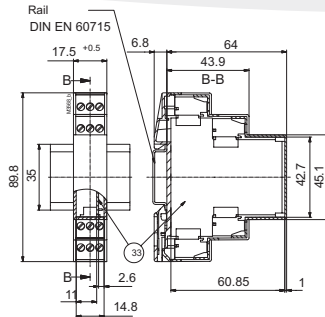


Unipot - Potentiometric Signal Conditioner

The UNI-POT signal conditioners have been designed to enable the user to adapt the output impedance of linear or rotative displacement transducers potentiometric with acquisition systems or PLC, in a way that does not alter the linearity of the transducer itself.

Technical Specifications

Potentiometric Sensor	1...20kΩ
Supply Voltage	20...32Vdc
Full Scale Output	0...10Vdc
Linearity Error	<0.03%
Inverse Polarity	YES



Sanket Digital - Strain Gauge Signal Conditioner

Technical Specifications

A/D Converter	24 bit resolution
Option	Handheld plug-in display for configuration PC Suite Software for Data Logging
Relay output	1 Relay (5A/230VAC) Standard
Analog signal	0-±10VDC, 0-±5VDC, 4-20mA, 0-20mA
	User selectable
Communication interface	RS-485 and USB for Configuration



Rameshwar Engineering

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