



SeethaRam
Mechatronics Pvt Ltd

◀ Bridging Gaps in Technology ▶

SENSOR CATALOG



Force



Torque



Displacement



Signal Conditioner



Indicator Controller



Connect



Monitor



Control

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 www.seetharam.in

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Rod / Column / Cannister Loadcell



FCIT

Force Column Internal Thread

- Model FCIT -Female thread - Tension & compression load cell
- Rated Capacities: 500kgf ~10tf



FCL

Force Column Loadcell

- Model FCL-Male thread -Tension & compression load cell
- Rated Capacities: 1tf,2tf

Miniature Loadcell



FPMT-M

Force Pancake Male Thread-Miniature

- Model FPMT(M)-Compression or Tension Load Cell.
- Miniature type, Male thread
- Rated Capacities: 20kgf ~200Kg

Button / Donut



FSMC

Force Subminiature Compression

- Model FSMC—Compression load cell
- For low space, high capacity applications
- Rated Capacities: 3tf ~ 5tf range

Pancake / Donut / Button



FPMT

Force Pancake Male Thread

- Model FPMT-Compression or Tension Load Cell.
- Having Male thread
- Rated Capacities: 20kgf ~2tf



FPT

Force Pancake Internal Thread

- Model FPT - Tension & Compression load call
- Having Female thread
- Rated Capacities: 1Tf~10tf

Pancake / Donut / Button



FPC

Force Column Internal Thread

- Model FPC - Miniature Compression Load Cell
- Rated Capacities: 50kgf ~5tf



FPMFT

Force Pancake Male Female Thread

- Model FPMFT - Compression or Tension Load Cell.
- Rated Capacities: 20kgf ~2tf

Shear Beam Loadcell



FSB

Force Shear Beam

- Model FSB - Shear type compression load cell.
- Low cost and high accuracy
- Rated Capacities: 50kgf ~ 12tf

Rotary Type Torque Sensors



RTDS-2Nm

RTDS-100Nm

RTDS-5000Nm

Rotary Torque Dual Shaft

- Nominal torque from 2Nm to 20000Nm
- Model RTDS torque sensor measures the torque of continuous rotating object.
- 2 to 3000 RPM
- Rated Output: 1.5mV/V $\pm 1\%$
- Application: Gear Box Testing

Wireless Special Type Torque



Rotary Torque Dual Flange

- Nominal torque 2Nm to 20000 Nm
- Nominal (rated) rotational speed: upto 6,000 rpm
- Available in rotating and non-rotating versions



PTOT

Power Take-Off Torque

- Capacity 1800Nm
- Model PTOT - Power Take-Off Torque



Output Module

Wireless Trans-Receiver with display to configure torque sensor and receive digital (RS485) / Analog output.

Rotary Type



RTSW-M

- Rotary Torque Socket Wrench**
- Nominal torque from 1Nm~5000 Nm
 - High accuracy 0.1% f. scale
 - Drive-square socket
 - Output-square drive



RTDS-M

- Rotary Torque Socket Wrench**
- Nominal torque from 1Nm~500 Nm
 - High accuracy 0.1% F.S.
 - Both shaft ends with keys
 - Very short axial length

Optional Features – Contact Sales Engineers / Factory

- Please Contact factory for Higher capacities, special dimensions & performance characteristics.
- Ingress Protection: IP67/IP68 protection against water/oil splash and under-water application
- High temperature: To withstand High Temperatures upto 200°C for demanding applications
- Large volume OEM customers may demand custom dimensions and mounting options.
- Most of our sensors (except miniature models) come with connector version and standard 2 meter mating cable connector; specify for longer cable lengths at the time of purchase order.

Shear Beam / Single Point / Cantilever



FSP

Force Single Point

- Model FSP –Single point strain gage load cell
- High accuracy and low price.
- Rated Capacities: 150gf ~ 50kgf



CSB

Customized Shear Beam

- Model CSB -Shear type compression & Tension load cell
- Low cost and high accuracy.
- Rated Capacities: 10kgf



FSP-70

Force Single Point

- Model FSP-70 - Single point strain gage load cell
- High accuracy and low price.
- Rated Capacities: 10kgf ~100kgf

S-Type Loadcell



FS

Force S-Type

- Model FS – Tension or compression load cell
- Extremely accurate and compact size
- Rated Capacities: 1kgf ~ 10tf



FZ

Force Z-Type

- Model FZ - Compact size.
- Measuring Ranges : 220kgf~2000kgf



FS-M

Force S-Type - Miniature

- Model FS(M) - Miniature and Compact size.
- Rated Capacities: 1kgf ~ 100kgf

Washer Type Loadcell



FW

Force Washer Cell

- Model FW - central hole -measuring force applied in their axial direction.
- Measuring Ranges : 0.5tf ~ 10tf



FW-HT

Force Washer Cell-High Temperature

- Model FWHT- Compression load cells designed for Preload force Measurement of bolts.
- Measuring Ranges : 300kN



WT

Web Tension

- Model WT-Force Transducers for Measuring the Web/Spindle Tension
- Corrosion resistant.
- Range of measurement: from 100N to 2kN

Automotive Loadcell



PFS

Pedal Force Sensor

- Model PFS - Break force measurement on vehicles.
- Available ranges upto 1500 N



HFS

Hand Force Sensor

- Model HFS - Forces on the handbrake lever of two-wheelers.
- Combined Hand held terminal
- Nominal load – up to 500 N



GS

Gear Shift

- Model GS - measure X and Y force of gear shifting lever.
- Calibrated and ready to use
- Rated Capacities: 500N

Multi-Axis Loadcell



MAS700

Multi-Components Loadcell

- Model MAS -700 - Constructed for torque and axial force detection
- Flange for easy installation.
- Rated Capacities: FX axis: 150kg, FY axis: 150kg, MZ axis: 15Nm



Tug

Tug Loadcell

- Miniature Compression or Tension Load Cell.
- Extremely small and lightweight.
- Rated Capacities: 20kgf ~200kgf



WF

Wave Force

- Model WF - Compression or tension load cell force sensors used underwater.
- Extremely small and lightweight.
- Rated Capacities : 2kN, 8kN

Force Strain Link



FSL-10T

Force Strain Link Loadcell

- Model FSL-10T - Compression & Tension
- Rated Capacity: 10tf

Crane Loadcell



LLC

Link Loadcell

- Model LLC - Wireless Tension Link Load cell for lifting applications.
- High capacity. Ultra Precision Strain Gage based compact and rugged.
- Rated Capacities: 3tf ~ 50tf

Large Display



LD

LED Matrix Display

- LED Dot Matrix Indicator
- Supply 110 ~240V AC
- 250 x410x 90mm
- 2 Relay output
- Optional: Analog Output

Static Type Torque Sensor



STDF

Static Torque Dual Flange

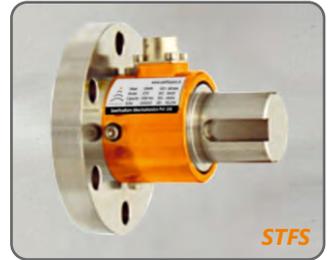
- Capacity 10, 20, 100 & 200Nm
- Very compact and rugged for heavy duty applications.
- Compensated for axial and bending moments for good accuracy.



STFS-W

Static Torque Flange Shaft-Wrench

- Nominal torque from 2Nm ... 2000 Nm
- With flange and standard inside square end
- Very short axial length



STFS

Static Torque Flange Shaft

- Nominal torque from 2Nm ~ 100 Nm
- A static torque sensor for measurement of torque of stationery objects or within a certain angle rotation.

Displacement Sensor



GMN

Gaman Displacement Sensor

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.

Touch Indicator



KT

Koal Touch Series

- 2.8 inch color TFT, Touch Screen Indicator Controller.
- User friendly special icons.
- KT-S, KT-A, KT-G, KT-E

Humidity Controller



KL

Koal Lite Series

- Integrated Humidity & Temperature Sensor
- 100% Humidity, Temperature up to 80°C
- LED Display, MODBUS RS485
- Wireless Remote Configuration

Strain Gauge Signal Conditioner



SR

Sanket -S Din Rail Series

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.

Potentiometric Signal Conditioner

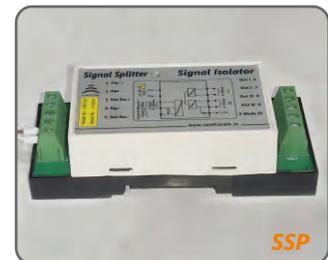


UP

Uni-Pot

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,

Signal Splitter



SSP

Signal Splitter

- 1-channel signal conditioner
- 12~30V DC supply (Power Rail)
- Input 2-wire and 3-wire transmitters and 2 wire current sources
- Dual output 4~20mA (Channel-II: 1~5V)