

SENSORS, TRANSDUCERS AND SIGNAL CONDITIONERS

A sensor is a device capable of measuring physical or chemical magnitudes and transform them into a simpler signal to measure like electrical variables such as voltage or mA through a transducer.

The output signal of the sensors usually needs to be conditioned for proper reading, using electronics such as amplifiers, filters, isolators among others. Once this signal is adapted, it can be read by PLCs, data acquisition instruments, recorders, controllers and other measuring devices.

Logicbus is committed to offering the broadest, most efficient and affordable solution for sensors, signal conditioners and transducers for the automation, measurement and control of your processes.



FORCE SENSORS / WEIGHTS / LOAD CELLS



S Beam

- Capacity: from 0.35 oz to 10K lbs.
- Protection rating: IP 68
- Compact designs available for reduced environments
- Single point construction



Rod End

- Capacity: from 25 to 20K lbs.
- Low capacity / High capacity
- 17-4 steel construction
- Low deflection



Load Button

- Capacity: from 100 g to 50K lbs.
- Subminiature/Miniature
- 17-4 steel construction
- Low Deflection



Donut

- Capacity: from 50 to 50K lbs.
- Resistance to high external loads
- 17-4 steel construction
- High Accuracy



Canister

- Capacity: from 2K to 30K lbs.
- Miniature/Compact size
- Light weight
- Strain gauge based



Pedal

- Capacity: from 100 to 500 lbs.
- 17-4 steel construction
- Low profile height
- Includes mounting plate and mating cable/connector package



Submersible

- Submersible
- Miniature size
- Protection rating: IP 68
- Built in overload protection



Pancake

- Capacity: from 500 to 50K lbs.
- Resistance to high external loads
- Fatigue rated available
- Low profile height



Low Profile

- Capacity: from 0.25 oz to 1K lbs.
- Light weight
- Low deflection
- Available in aluminum and stainless steel



Panel Mount

- Capacity: from 10 g to 5 lbs.
- Miniature size
- Easy installation
- Built in overload protection



Parallelogram

- Capacity: from 0.25 to 500 lbs.
- Light weight
- In both tension and compression
- Single point construction



Medical

- Drug delivery control systems (automated)
- Fitness equipment/ Rehab equipment
- Infusion pump control
- Medical bag weighing applications
- Sterilization/Packaging systems

INSTRUMENTS



Panel Mount



Hand Held Display



USB Module



Analog Amplifier

TORQUE SENSORS



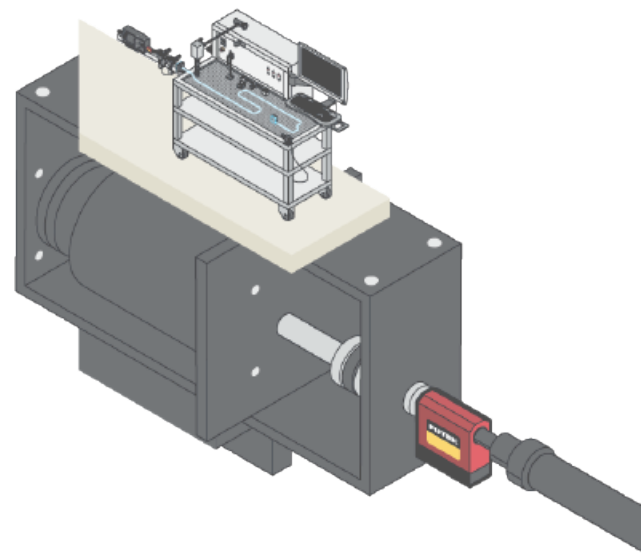
Reaction

- Static measurements
- Capacity: from 5 oz to 24000 lbs.
- Exclusive extensometric gauge technology
- Easy integration in the instrumentation



Rotary

- Multiple outputs: mV/V, VDC or USB
- Maximum capacity of 1000 Nm
- Up to 12000 RPM
- Optional Encoders



PHOTOELECTRIC SENSORS



General Purpose

Photoelectric sensors of size, texture, distance, opacity, depth and even color.



Label Sensor

Two types: optical and ultrasonic.
Label rewinding, label applying, splice detection, registration mark sensing, high speed counting.



Clear Object Sensor

It's optimized to detect translucent/transparent containers and shiny objects.



Color Sensor

Detects differences in color and/or shadows of an object or material. It provides a solution for problems of inspection or color classification.



Contrast Detection Sensor

This sensor responds to printed registration marks on packaging material as they pass through the sensors light beam.



UV Luminescence Sensor

It's designed to detect the presence of invisible UV fluorescent materials contained in special chalk, paint, ink, grease, glue, etc.

TEMPERATURE SENSORS



Thermocouple

Wide range of temperature acceptance.



Infrared

Contactless temperature sensors. Used in applications where the sensor should be isolated from the measuring surface.



RTD

Advantage:

- CJC is not required
- Large amplitude output
- Designed for different lengths



RH Encoder

RH programmable dual wheel encoder with under-belt mounting assembly and cable.

ENCODERS

PRESSURE SENSORS



ECT 8472 / NAT 8252

- Switchable output signal mA or V
- Protection rating: IP65, IP67
- Withstands high environmental temperatures

DPC 8380 / DPC 8381

- A combination of pressure switch and transmitter with pressure display
- The parameters are set on the device or via an NFC - smartphone App.

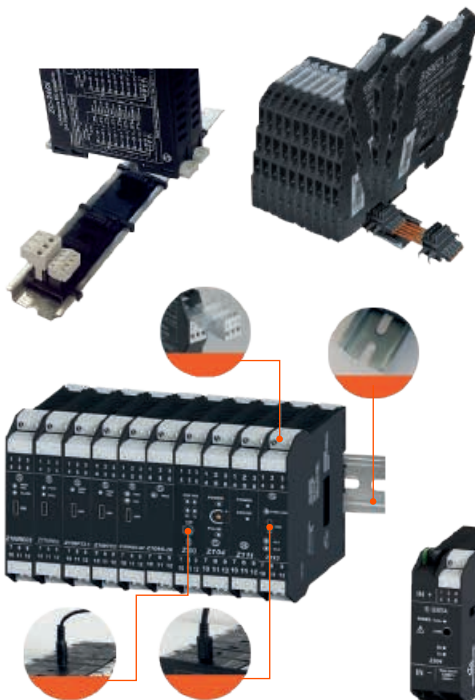
TRANSDUCERS



Donut Transformers

They allow measuring and monitoring of high voltage systems, whose current values can't be measured directly by a system or digital device.

SIGNAL CONDITIONERS

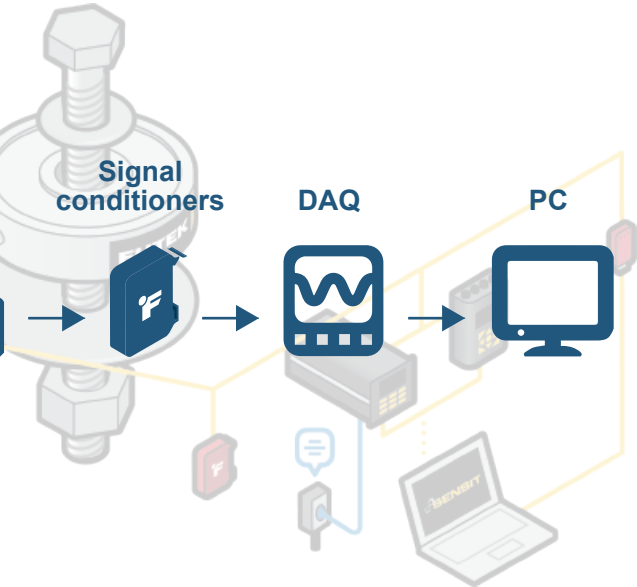


Current, Voltage, Pulse and Universal

- Single-pole or bipolar input / output
- Configuration by dip switch or software
- Signal duplicators

Power

- For voltages up to 1200VDC/850VAC
- For current donuts of 5A or 10A
- Measurement of electric consumption
- Some magnitudes, V, A, W, FP, θ



Load Cell

- For all types of load cells
- 4 or 6 wires input
- Outputs of 0~10V, 4~20mA or Modbus
- Easy calibration

Temperature

- RDT, Thermocouples or NTC
- Outputs of 0~10V, 4~20mA or Modbus
- Configuration by dip switch or software
- AC, DC power or control loop

Logicbus | Authorized Dealer

FUTEK
ADVANCED SENSOR TECHNOLOGY, INC.

TRI-TRONICS

SENECA

trafag
sensors & controls

ICP DAS

CALEX
ELECTRONICS LIMITED

ONLINE STORE
www.logicbus.com

