

LEVEL

MOISTURE

DENSITY

FLOW



**JAYCEE TECHNOLOGIES
PRIVATE LIMITED**

Authorised Distributor



MTS Engineers Pvt. Ltd.

OPERATING PRINCIPLE



MODEL

RF ADMITTANCE

- Three-Element Coat Guard Technology. Ignores material build-up on the probe : High Reliability
- Fast and Easy Installation Simple Calibration
- Suitable for the highly dusty environment
- Field selectable operation logic. Can be configured either for High or Low level point switching
- Provides economical solutions. Various models not required. Reduces the Inventory

Applications :

- Building Industry materials, cement, sand, lime, etc.
- Foodstuff Industry, powder, granular etc.
- Timber Industry, chemical and mining etc.



JAYCEEADMIT

VIBRATING FORK

- Fast and Easy Installation No Calibration
- No effect of electrical properties of the Service material, High Reliability
- Suitable for the highly dusty environment
- Field selectable operation logic Can be configured either for High or Low Level Point switching
- Provides economical solutions Various model not required. Reduces the Inventory cost.

Applications :

- Building industry materials, cement, sand, lime, etc.
- Foodstuff Industry, milk powder, flour, salt, foodgrains, etc.
- Plastic industry, powder, granular etc.
- Timber industry, chemical and mining etc.



JAYCEEFORK

CONDUCTIVITY

- Long cable connection permissible between probe and evaluation unit.
- Low AC on probes for prevention of electrolytic deterioration of electrodes and available beside single point switching.
- Two point action for automatic pump control.
- Two point independent switching.
- Three point switching, two points with pump control logic and one independent point.
- Four point switching with two-pump control logic.
- Variety of probes available for various process conditions.

Applications :

- For electrically conductive liquids in Food, Power steel, Textiles WTP, ETP etc.



JAYCEEQUA

ROTATING PADDLE

- Motor torque is adjustable
- Special Clutch Mechanism to protect motor.
- Sealed bearing for rotating shaft.
- Dust -proof Enclosure.
- Supply voltage 110VAC, 230VAC, 24VDC
- Contact rating, 10A is 250VAC.
- Top mounting, shaft length adjustable type.
- Screw or flange connection is available.
- Various paddle can be applied in different application.

Applications :

- Cement Industry Petrochemical Food Industry Steel Making Industry Material Handling



JAYCEEROTO

FLOAT

- Potential free contacts
- Switches are available in open, closed type.
- Only moving parts is float.
- Single or multilevel switching available.
- Various float size and MOC available.
- Available for hazardous area application.
- Various ratings reed switch available.
- Miniature versions available.
- Density covered are 0.65 to 1.5
- Side mounted versions also available.
- Control logic can also be supplied.



JAYCEEFLOAT

CAPACITANCES LEVEL TRANSMITTER

- Capacitance Level Transmitter is a compact, low cost, 3/4 wire capacitance level transmitter family with 4-20 mA analogue output.

Applications :

- Measure the level of various liquids, and solid in tanks or storage silos. Measuring range is 0.2 to 3 m for rod probe version.



JAYCEETRANS

VIBRATION

- No moving parts
- Self-cleaning for most medium
- High immunity against vibrations
- Stainless steel and ECTFE coated probes
- Solid rod extension up to 3 m
- Various output configurations
- Selectable density
- High or low fail-safe mode
- Plastic, Aluminium or stainless steel housing
- Explosion-proof models

Applications :

- Most liquids with max. 10000 mm²/s viscosity
- Corrosive, thick, turbulent, flowing liquids
- Powders and light granules with min. density 0.05 kg/dm³



NIVOSWITCH

ULTRASONIC PROXIMITY SENSOR

- Switch or transmitter
- Fully temperature compensated
- IP67 or IP68 versions
- Metal or PP body
- Simple programming.

Ranges : 0,2 - 1 m or 0,4 - 6 m

Resolution : 0,1 mm

Switching output : PNP max. 200 mA

Transmitter output : 0-10 V or 4 - 20 mA

Power supply : 10,8-30 V

Ambient temperature : 20 .. +70°C

Applications :

- Proximity switch or transmitter for :
- Positioning equipment
- Packaging equipment
- Filling equipment
- Small transport vehicles
- Trolleys
- Fork-lifts



MICROSONAR

ULTRASONIC LEVEL TRANSMITTER

- Low cost, standalone, non-contact level metering
- Narrow 5° beam angle
- Fully temperature compensated
- Excellent signal processing via Quest + software
- Touch-Magnet programming
- HART

Power supply :

10.5.... 40 V DC, 3.6 W or 10.5.... 28 V AC/ 4 VA

Temperature :

-30°C to 100°C

Pressure :

0.3 3 bar

Measuring range :

0.25 - 10 m

Output :

4-20 mA, HART

Protection :

IP 68

Applications :

- Most liquids
- Water and wastewater
- Pump stations
- Open reservoirs
- Where IP 68 is needed



EASYTREK

ULTRASONIC LEVEL TRANSMITTER

- Low cost, four wire
- Economical, standalone, non-contact level metering
- Narrow 5° beam angle
- Fully temperature compensated
- Excellent signal processing via QUEST + software
- PP, PVDF, PTFE and stainless steel transducers for liquids, foam solids
- Optional field indicator and plug-in programmer / display
- Plastic or aluminium housing
- HART

Power supply :

85-255V AC / 120-375 V DC 10.5-40V DC / 10.5-28 AC 12-36V DC

Temperature :

-30°C to 100°C

Pressure :

0.3 to 3 bar

Measuring range :

0.2 to 25 m for liquids, 0.6 to 60 m for solids

Output :

4-20 mA, relay, RS485, HART

Protection :

IP 67

Applications :

- Almost any liquids or free flowing solids
- Volume or weight calculation
- Open channel flow measurement
- Reliable measurement in challenging applications with vapours/fumes, stirrers, foam on chemicals or dust during pneumatic filling of powders



ECHOTREK

OPERATING PRINCIPLE



MODEL

MICROWAVE LEVEL TRANSMITTERS

- Most advanced method to measure the level of liquids and solids
- Measurement is independent of dielectric, temperature, pressure and density variations
- Turbulent product surface, dust, vapour and foam have no effect on result
- Length easy to modify without calibration
- Tight accuracy, repeatability and resolution
- Suitable to all tank forms
- Measuring range up to 24 m
- Medium temperature - 50°C ... +600°C
- Pressure up to 40 bar
- Different probe types and materials
- Optional digital indicator



MICROTREK

MICROWAVE MOISTURE MEASUREMENT

- Body : cast stainless steel (ANC3B 18/8SS)
Endcap : stainless steel (AISI 316)
Faceplate : alumina ceramic
- For bulk materials the sensor will measure up to the point of saturation, typically 0-20% for construction materials.
- Power supply +15Vdc to +30Vdc. 3 watts max.
- 0-60 degrees C. The sensor will not measure moisture in frozen materials.
- Configurable 0-20 mA or 4-20mA current loop source. For 0-10Vdc output an external 500R load resistor should be connected across the analogue output at the control system.
- The batch average start stop or moisture / temp. multiplexing functions can be controlled via the digital inputs.
- Opto-isolated RS485 2-wire port.

Applications :

- Aggregates
- Concrete Mixing
- Clay Bricks
- Asphalt
- Animal Feed
- Grains
- Sugar
- And Others



HYDROPROBE II

TRANSIT TIME FLOW METER

- Portable Measure flow of clean fluids from a Pipe Outside
- Displays, Datalogs Transmits and Totalizes Flow in Closed Pipes Strap-on Ultrasonic Sensors
- Easy Calibration and Set-up 50,000 point Data Logger 4-20mA Output
- Built-in Rechargeable Battery
- Recommended for clean fluids like water, glycol, oil and most chemicals.
- Ultrasonic sensors strap-on the outside of pipes from 50 to 1000 mm.
- Signal penetrates all common metal and plastic pipe materials. Sensors can be mounted without shutting down flow and there is no obstruction or pressure drop.
- Calibration is easy with the onscreen menu system.



PORTAFLOW SE

Nucleonic Density Measurement

For Slurries, Sewerage Sludge And Liquids

- Fully digital operation
- Automatic gain stabilisation
- Low source activity
- Scintillation detector
- Rugged construction
- IP67
- Repeatability 0.0001 SG

SPECIFICATION :
Principle Components

Source Holder : Lead filled sealed ductile steel Shielding meets or exceeds BARC accepted safety standards. Rotary shutter with standardising absorber incorporated

Radioisotope : Double encapsulated Cs 137 or Co 60

Detector Housing : Rugged steel enclosure IP67 Connects to Control Unit with instrumentation cable

Scintillation Detector : Sodium Iodide with integral photo-multiplier

Control Unit : Switch mode power supply 88 to 264 Vac. No loss of data with power off. Decay clock continues with power off. Data transmitted by RS422 link. May be up to 1000 metres from detector module Isolated 4-20ma current output loops (1.5 KV). Cabinet is IP65.



SS200

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MTS Engineers Pvt. Ltd.

B-408, Wall Street - II, Opp. Orient Club, Nr. Gujarat College, Ellisbridge, Ahmedabad - 380 006. Gujarat (India).
Tel. No. : 079 - 26400063, Telefax : 079 - 40047430
E-mail : info@mtsengrs.com, Web : www.mtsengrs.com