

INSTRUMENTS (FIELD SENSORS) FOR ASPHALT BATCH MIX PLANT



1. Drying drum with burner
2. Filter dust extractor with coarse dust pre-separator
3. Elevator
4. Reclassification screen (hot screen with bypass changeover)
5. Hot aggregate silo with 4 or 5 aggregate compartments
6. Weighing platform with aggregate, filler, bitumen scale
7. Mixing platform with Amix 1,2 tonne twin shaftpaddle mixer
8. Hot mix storage silo
9. Truck loading (direct from mixer or hot mix storage silo)
10. Filler silo tower for reclaimed and imported filler
11. Reclaimed filler storage
12. Thermo oil heated bitumen tank system

RTD / Thermocouple Sensor with Transmitter

Model : PT 100 (Make : Parshvi)

Specification :

- ❖ Temperature probe : PT100 (3 Wire)
- ❖ Length : 200 mm/ 400 mm (Other On Request)
- ❖ OD : 12mm
- ❖ Thread Connection : 1/2" BSP Fixed
- ❖ Weatherproof Aluminium Diecasting Head IP 65



Model : 2000.035.015 (Make : Pixsys)

Specification :

- ❖ Programming : Wireless with mobile application (no wiring required)
- ❖ Input : Thermocouple/ RTD
- ❖ Output : 4...20mA loop powered
- ❖ Power supply : Operating range 6-32 Vdc
- ❖ Connection : Screw pins
- ❖ Fixing : On DIN/ B head
- ❖ Operating conditions : Temperature -40+85 °C, humidity 30..90% (non condensing)
- ❖ Galvanic isolation
- ❖ 3600 points data logger



Non-Contact Temperature Sensor

Model : PC151 (Make : Calex)

Specification :

- ❖ Fixed emissivity
- ❖ Temp. range : 0 to 500 °C
- ❖ Output : 2 wire, 4-20mA
- ❖ Accuracy : $\pm 1\%$ of reading or $\pm 1^\circ\text{C}$, whichever is greater
- ❖ Supply voltage : 24 V DC (28 V DC max.)
- ❖ Cable length : 1 Mtr adjustable mounting bracket



Accessories

- ❖ Thermal Jacket of Pyrometer



Application : Dryer Drum Outlet Material

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Accessories :

- ❖ Adjustable Mounting Bracket



- ❖ Air Purge Coller



Application :

- ❖ Asphalt mixing outlet before truck Loading/ Pug mill outlet

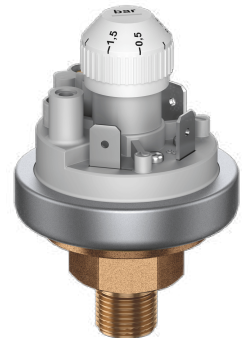
Air Pressure Switch

Model : 901.6x (Make : Beck - GmbH)

Specification :

- ❖ Range : 1 To 6 bar
- ❖ Process connection : G1/4 brass
- ❖ Protection class : IP65 with cover cap

Application : Air Blower



Safety Temperature Switch/ Thermostat

Make : Trumen

Specification :

- ❖ Stable switching point position due to ambient temperature compensation (standard)
- ❖ Max. switching capacity 16 A, 230 V
- ❖ Tested according to DIN EN 14597
- ❖ Operating life at least 250,000 switching cycles
- ❖ Switching point deviation during the entire operating life of up to $\pm 5\%$
- ❖ Thermostat With Weather Proof Enclosure
- ❖ Protection type max. IP 66
- ❖ Temperature range 50 to 300 °C
- ❖ Prob length 250mm



Application

- ❖ Bag Filter Inlet Temperature Safety

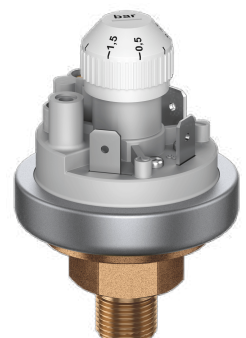
Gas Pressure Switch

Model : 901.6x (Make : Beck - GmbH)

Specification :

- ❖ Range : 10..... 50 mbar
- ❖ Process Connection : G1/4 Brass
- ❖ Protection Class : IP65 with cover cap

Application : Gas Burner



Differential Pressure Gauge

Model : DPG (Make : HK Instruments Oy)

Specification :

- ❖ Measuring ranges : 0 ... 5 kPa
- ❖ Burst pressure : 20kPa
- ❖ Accuracy : $\pm 4\%$ F.S
- ❖ Case : ABS
- ❖ Mount : Wall mounting

Application :

- ❖ Bag Filter Status



Pressure Transmitter

Model : TFP40 (Make : Trumen)

Specification :

- ❖ Pressure range : 0 to 10 bar Gauge
- ❖ Output signal : 4... 20 mA
- ❖ Accuracy : 0.5% FSO
- ❖ Electrical connection : Connector DIN43650
- ❖ Operating temperature range : -20 to +85°C
- ❖ Mechanical connection : 1/2 inch BSP thread

Application : For Air Pressure



Differential Pressure Transmitter

Model : 985M (Make : Beck - GmbH)

Specification :

- ❖ Range : 0 to 50 mbar
- ❖ Output : 4 -20mA (2 Wire)
- ❖ Supply : 18 ... 30 VAC / VDC
- ❖ Protection class : IP65
- ❖ Without Display

Application :

- ❖ Bag Filter/ Bag House



Differential Pressure Transmitter

Model : 985M (Make : Beck - GmbH)

Specification :

- ❖ Range : 0 to 2.5 mbar
- ❖ Output : 4 -20mA (2 Wire)
- ❖ Supply : 18 ... 30 VAC / VDC
- ❖ Protection class : IP65
- ❖ Without Display

Application :

- ❖ Dryer Drum Draft Pressure Measurement



Rotating Paddle Type Point Level Switch

Model : LSR (Make : Trumen)

Specification :

- ❖ Enclosure : Aluminum Non-Hazardous - IP66/68
- ❖ Material temperature : Up to 200 Deg C
- ❖ Probe type : Rigid Pipe / Tube probe
- ❖ Sensor extension Material : SS 304 process
- ❖ Vane/ Paddle type : Double spring loaded
- ❖ Blade surface material : SS 304
- ❖ Process connection : 1-1/2" BSP
- ❖ Process connection Material : SS 304
- ❖ Power supply : 24V DC
- ❖ Length : L0xxx-210/350 (other on request)

Application : Hot Bin Hopper



RF Admittance Type Level Switch

Model : LSY (Make : Trumen)

Specification :

- ❖ Enclosure : Aluminum non-Hazardous IP-67/68
- ❖ Process temp. : max 200°C
- ❖ Rigid rod probe
- ❖ Sensing rod Material : SS 316
- ❖ Sensor extension material : SS 304
- ❖ Insulation type : Partly PTFE insulated
- ❖ Process connection : 1-1/2" BSP
- ❖ Process connection material : SS 304
- ❖ O/P : 1 DPDT relay O/P
- ❖ Supply : Universal power supply 15 to 80 VDC & 15 to 260 VAC 50/ 60Hz
- ❖ Insertion length : 210 & 350 mm (Other On Request)

Application : Hot Bin Hopper



Pendulum Level Indicators

Model : MS-1 (Make : Filsa)

Specification :

- ❖ Rod lenght : Upto 2000 mm
- ❖ Product density : 0,3 t/m³ – 3 t/m³
- ❖ Maximum pressure : +0,5 bar
- ❖ Switching function : 1 NO + 1 NC
- ❖ Capacity of the contact : 15 A / 250 V AC (for resistive loads)
- ❖ Bulk good temperature : -25° C – +80° C
- ❖ Type of protection : IP66 according to DIN En60529
- ❖ Materials : Housing Aluminium, RAL 7001 coated

Application :

- ❖ High Level Switch Of Lime Silo



Vibrating Fork Liquid Level Switch

Model : LFV (Make : Trumen)

Specification :

- ❖ Enclosure : Aluminum non-Hazardous IP66/68
- ❖ Temperature : max 200°C
- ❖ Sensing surface material : SS 316
- ❖ Sensor extension material : SS-304
- ❖ Process connection type : BSP 1...1/2",
- ❖ Process connection material : SS 304
- ❖ Universal supply 15-80V DC & 15-260V AC
- ❖ 1 DPDT potential free relay output

Application : For Bitumen overflow safety level



Continuous Level Transmitter - Solid

Model : TLC (Make : Trumen)

Specification :

- ❖ Enclosure : Aluminium Non Hazardous IP-66/68
- ❖ Material Temperature : max 200°C
- ❖ Single flexible rope probe for solids (12mm)
- ❖ Sensing Surface Material : SS-316
- ❖ Insulation type : Partly PTFE insulated
- ❖ Sensor Extension Material : SS-304
- ❖ Process Connection : 1...1/2" BSP
- ❖ Process Connection Material : SS-304
- ❖ Integral Electronics 4 - 20mA output, loop powered
- ❖ Insertion length up to 12 meter

Application : Filler Silo Level / Hot Bin / Lime Silo



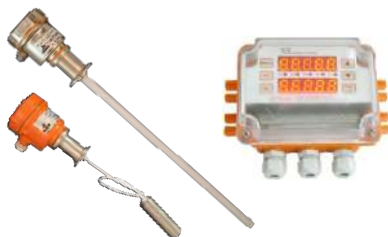
Continuous Level Transmitter - Liquid

Model : TLC (Make : Trumen)

Specification :

- ❖ Enclosure : Cast aluminum non-Hazardous IP66/68
- ❖ Mounting : Top mounted with sensing probe
- ❖ Output : Integral electronics 4-20mA loop powered
- ❖ Process Temperature : upto to 200 Deg C
- ❖ Process connection : Threaded 1-1/2", BSP
- ❖ Process connection : Material : SS-304
- ❖ Sensing Surface : Material : SS-316
- ❖ Insulation type : Full PTFE Insulated
- ❖ Counter weight : SS-316
- ❖ Prob length : We can offer probe length up to 12 Mtr.

Application : Bitumen / FO Level Measurement



Burner Modulation PID Controller

Model : ACR Series (Make : Shinko)

Specification :

- ❖ PV viewable even during control OFF !
- ❖ Output MV can be viewed as bar graph
- ❖ Simplified setting mode
- ❖ A variety of Input/Output Event functions !
- ❖ Power via USB cable usable for setup
- ❖ Feedback potentiometer
- ❖ "Yes/No" selectable
- ❖ Drip-proof/Dust-proof



Air Velocity Transmitter with S-Type Pitot Tube

Model : 985V (Make : Beck - GmbH)

Specification :

- ❖ Velocity range : 0 ... 30 m/s flow velocity unit : ft./min.; m/s
- ❖ Range : 0 ... 1 KPa (10 mbar)
- ❖ Supply voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3wire, with switching output
- ❖ Display : LED display, red, 4 digits
- ❖ Accuracy : $\pm 1\%$ FS, min. ± 1 Pa
- ❖ Protection class : Ip65

Accessories:

- ❖ S-type pitot tube (Stainless steel)
- ❖ Length : 500 mm
- ❖ OD : 6 mm
- ❖ Mounting type : cleat or flange



Digital Temperature Indicating Controllers

Model : BCx2 series (Make : Shinko)

Specification :

- ❖ Convenient Initial setting mode
- ❖ Simplified Program control
- ❖ Simplified converter function
- ❖ A variety of Event Input/Output functions
- ❖ Large, Easy-to-view, 5-digit PV, SV Displays
- ❖ Compact, 60 mm-deep control panel interior
- ❖ Drip-proof/Dust-proof IP 66
- ❖ Event output EV1 is standard



Load Cell/Strain-Gauge Indicator

Model : STR 561 (Make : Pixsys)

Specification :

- ❖ Multilingual interface with full-text menus for intuitive and fast programming
- ❖ Visualization of process trend or Bar graph
- ❖ Alarm thresholds and process analogue retransmission
- ❖ Size : 96x48
- ❖ Universal Power Supply
- ❖ OLED Sharp Display
- ❖ Retransmission Output to connect with PLC
- ❖ 2 High and low Level Switch for Safety
- ❖ Modbus Communication
- ❖ 3600 points data logger
- ❖ Configuration very easy and can done through mobile



Application :

- ❖ Connected To Any make of Load Cell