



**Pune Techtrol
Private Limited**

INTEGRATED
**ENGINEERING
SOLUTIONS**
IN INDUSTRIAL
AUTOMATION



Innovating Solutions
Since **1984**





NANDLAL KHATAN

Managing Director | Pune Techtrol Pvt. Ltd.

Techtrol has achieved the brand recognition as a trusted solution provider in the field of Level Management and Process Automation. This has become possible by our constant strive towards innovation, no compromise with standard and quality and the ever learning members of our team who can turn every challenge into a solution.

Techtrol is recognised as most reliable and trusted brand, delivering quality products unsurpassed in terms of accuracy, workmanship, performance, safety and ease of installation providing long uninterrupted service in wide and varied industrial applications.

Our products are designed and engineered for optimal performance and with practical experience gained over the last several years has equipped us, to meet the most demanding user requirements.



1984 - 6 EMPLOYEES
2021 - 150 EMPLOYEES



ISO 9001 : 2015
ISO 14001: 2015
ISO 45001: 2018



LOCATED AT PUNE,
180 KMS FROM MUMBAI



Industry-Proven
Products



Cost Effective
Solution



Prompt
Delivery



Responsive
Customer
Support



Transparency



VISION

To be a leading provider of optimal products and solutions in level measurement and process automation system for liquids and solids.



MISSION

To continuously upgrade our capabilities, to meet future challenges of evolving process industry, through incorporation of new technology, human resources and skills.



QUALITY POLICY

We will provide quality level measurement and process automation systems with value added services for optimising customer satisfaction, which is vital for our growth.



QUALITY OBJECTIVES

- Maintain and improve product quality.
- Continual improvements in products, processes & QMS.
- Business growth through better understanding of customer requirements.
- Enhance customer satisfaction.

INNOVATIVENESS



Innovation is the working principle of Pune Techtrol. We understand the potential relevance of evolving technology and ensure to apply innovation in every aspect of manufacturing.

LEAN MANUFACTURING



As part of innovation, Pune Techtrol has implemented Lean manufacturing principles into its production process & has received outstanding results in no time.



OUR FACILITY

We are proud to possess the state-of-the-art manufacturing facility, well integrated and equipped with modern infrastructure and machines, accurate testing and calibration set up and resourceful workforce.



CORE VALUES

- Integrity
- Transparency
- Flexibility
- Teamwork
- Clean Work Place & Pleasant Atmosphere
- Employees well-being
- Empowerment & Accountability
- Safety, Environment Protection & Resource Conservation
- Trust between all Stakeholders

MANY HANDS, ONE MISSION

Another year | 365 Days | 24x7 with you



Level Gauges For Liquids

Oil Gauge - OLG



CE

Gauge : Borosilicate Glass
 CCD : 70 - 300 mm
 Max Temp : 150°C
 Max Pressure : 1 kg/cm²
 MOC : CS, SS304/316/316L, Monel

Mini Tubular - MTTG



CE

Gauge : Borosilicate Glass
 CCD : 100 - 400 mm
 Max Temp : 100°C
 Max Pressure : 10 kg/cm²
 MOC : SS304/SS316

Tubular - TTG



CE

Gauge : Borosilicate Glass
 CCD : 300 - 1500 mm
 Max Temp/ Pr : 200°C/ 10 kg/cm²
 MOC : CS, A105, SS304/316/ 316L
 PP, PVDF, PTFE lined SS
 Construction : 'C' Channel or Tie Rod
 Options : Autoball Check, Frost Free,
 Illuminator, Steam Jacketing

Reflex - RFG



CE

Gauge : Soda Ash/Borosilicate Glass
 CCD : 170 - 2000 mm
 Max Temp/ Pr : 400°C/ 210 kg/cm²
 MOC : CS, A105, SS304/316, PP
 Options : Autoball Check, Frost
 Free, Illuminator, Steam Jacketing

Transparent - TFG



CE

Gauge : Soda Ash or Borosilicate Glass
 CCD : 170 - 2000 mm
 Max Temp/ Pr : 400°C/ 210 kg/cm²
 MOC : CS, A105, SS304/316
 Options : Autoball Check, Frost Free
 Illuminator, Steam Jacketing

Weld Pad - WFG



CE

Gauge : Soda Ash or Borosilicate Glass
 CCD : 205 - 600 mm
 Max Temp : 300°C
 Max. Pressure : 72 kg/cm²
 MOC : CS, A105, SS304/316/ 316L

Magnetic - MLG



CE
 HART
 TRANSMITTERS

CCD : 300 - 5000 mm
 Liquid SG : ≥ 0.5
 Max Temp/ Pr : 400 °C/ 300 kg/cm²
 MOC : SS304/316/316L, Hastalloy
 PP, PVDF, PTFE lined SS
 Indicator : Capsule or bicolor flappers/ Rollers
 with IP65 or hermetically sealed
 Options : Alarm Switches (max 4 no), X'mitter

Float & Board - FBG



CE

Range : 1 - 15 mtrs
 Liquid SG : ≥ 0.8
 Max Temp/ Pr : 150°C/ Atm
 MOC : SS304/316/316L, ECTFE ctd SS, PP
 Gauge Board : Aluminum
 Options : Seal pot, Alarm Switches (max 4)

Magnetic Float Dial - MFDG



Range : 200 - 1200 mm
 Liquid SG : ≥ 0.8
 Max Temp/ Pr : 100°C / 4 kg/cm²
 MOC : SS304, PU
 Enclosure : Cast Al. IP66
 Option : Alarm Switches (max 2)

Float & Dial - FDG (Analog, Digital)



- Range : 1 - 10 mtrs
- Liquid SG : ≥ 0.8
- Max Temp/ Pr : 100°C/ Atm
- MOC : SS304/316/316L, ECTFE ctd SS
- Enclosure : Cast Al. IP66 (Analog/Digital), Exd IIB (Digital)
- O/P : 4-20 mA (Digital)
- Options : Alarm Sw (max 2), X'mitter (Analog)

Float & Tape - FTG



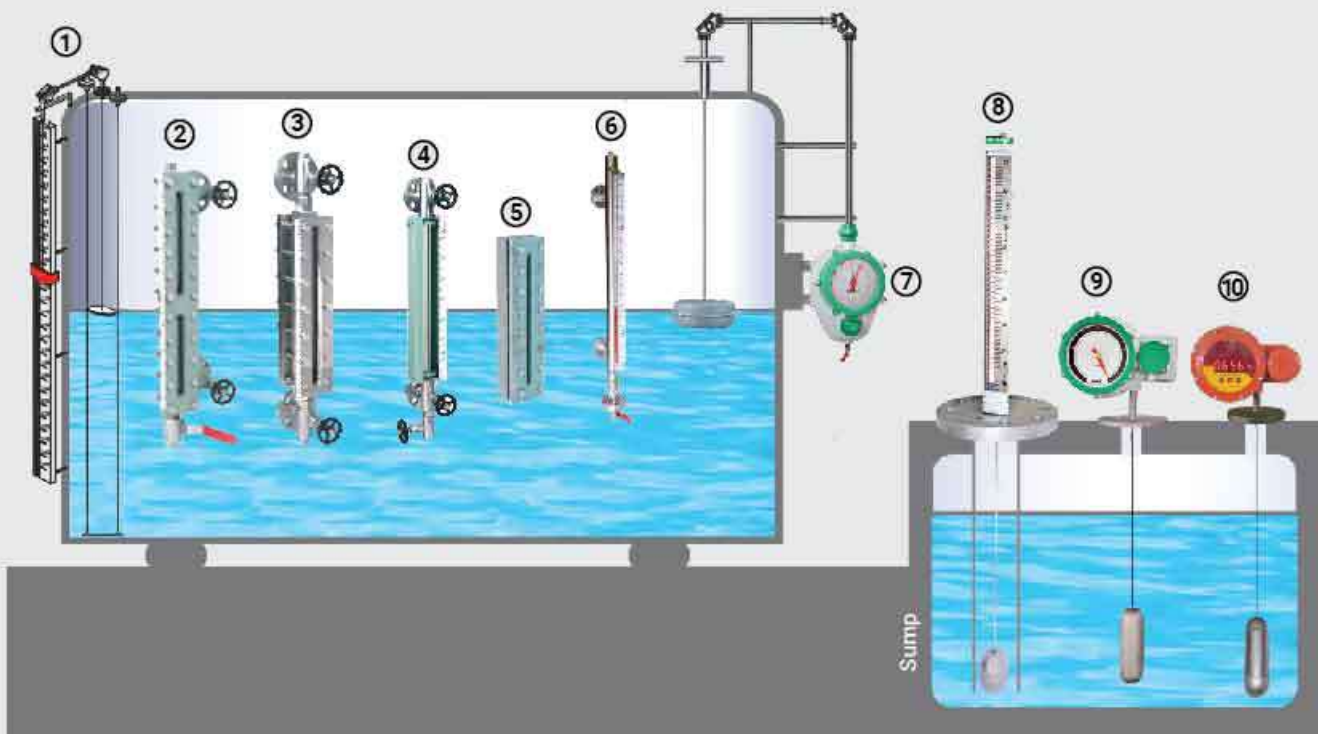
- Range : 4 - 20 mtrs
- Liquid SG : ≥ 0.8
- Max Temp / Pr : 120°C/ Atm
- MOC : SS316, ECTFE ctd SS
- Enclosure : Cast Al. IP65
- Options : Alarm Switches (max 4), X'mitter

Calibration Pot - TCP



- Range: 10 to 20000 ml (Vol.)
- Measuring Jar: Glass SS304/ 316/ 316L, PP, Hastalloy C, Ti,
- Max Temp: 70 °C
- Max Pressure: 5 kg/cm²

Installation Arrangements



- ① Float & Board Gauge
- ② Reflex Gauge
- ③ Transparent Gauge
- ④ Transparent Tubular Gauge
- ⑤ Weld Pad Gauge
- ⑥ Magnetic Gauge
- ⑦ Float & Tape Gauge
- ⑧ Top Mounted Magnetic
- ⑨ ⑩ Float & Dial (Analog & Digital)

Level Switches For Liquids

Mini Float Guided - MFGS



CE

- Liquid SG : ≥ 0.7
- Max Temp : 130 °C
- Max Pressure : 5 kg/cm²
- MOC : SS304, PP
- Contacts : 10 VA x Reed Switch Hermetically sealed
- Mounting : Top or Side

Mini Float Pivoted - MFPS



CE

- Liquid SG : ≥ 0.7
- Max Temp : 130 °C
- Max Pressure : 5 kg/cm²
- MOC : SS304, PP
- Contacts : 10VA x Reed Switch Hermetically sealed
- Mounting : Side

Float Pivoted - FPS



IBR Ex CE

- Liquid SG : ≥ 0.6
- MOC : SS304/316/316L, PP, PVDF
- Contacts : 5A, 250VAC x SPDT/DPDT, hermetically sealed
- Enclosure : Cast Al IP66 or Ex d IIC or ATEX
- Max Temp : 350°C
- Max Pressure : 20 kg/cm²

Float Guided - FGS



Ex CE

- Range : 100 - 3000 mm
- Liquid SG : ≥ 0.65
- Max Temp/ Pr : 150°C/10 kg/cm²
- MOC : SS304/316/316L, PP, PVDF
- Contacts : 40/120 VA(NO), 60VA (C/O)
- Hermetically sealed reed sw
- Enclosure : Cast Al IP66 or Ex d IIB, IIC or ATEX
- Preset levels : 1-4 (single or multiple floats)

Cable Suspended Floats - FTS



CE

- Range : 0.2 - 15 mtrs
- Liquid SG : ≥ 0.75
- Float : PP (Obconical, Biconical)
- Cable : 3 core, 1 mm², Neoprene
- Contacts : 5A, 8A, 250 VAC x SPDT
- Max. Temp/ Pr : 70°C, 3 kg/cm²

Chamber Float - CFS



IBR Ex

- CCD : 200 - 400 mm
- Liquid SG : ≥ 0.8
- Max Temp/ Pr : 300°C/ 10 kg/cm²
- MOC : CS, SS304/316
- Contacts : 5A, 250 VAC x 2 SPDT, hermetically sealed
- Enclosure : Cast Al. IP66, Ex d IIC, ATEX

Displacer - DS



IBR Ex CE

- Range : 0.2 - 15 mtrs
- Liquid SG : ≥ 0.8
- Max Temp/ Pr : 300°C/ 100 kg/cm²
- MOC : SS304/316/316L, PP, PTFE, PVDF
- Contacts : 5A, 250 VAC x 2SPDT, hermetically sealed
- Enclosure : Cast Al. IP66, Ex d IIC, ATEX
- Preset Levels : 3 max

Compact Displacer Switch - CDS



- Range : 0.5 - 3 mtrs
- Liquid SG : 1
- Max Temp/ Pr : 70°C/ Atm
- MOC : PP
- Contacts : 5A, 250 VAC x SPDT
- Enclosure : PP x WP

Conductivity - CNS



- Range : 0.1 - 10 mtrs
- Liquid Conductivity : ≥ 25 us
- Max Temp/ Pr : 100°C/ 5 kg/cm²
- MOC : SS304/316 + PVC/PTFE
- Contacts : 5A, 250 VAC x SPDT
- Enclosure : Cast Al. IP66 or Ex d IIB
- Preset Levels : 4 max.
- Option : Integral, Two Part System

Capacitance - CPS



Range : 0.2 - 5 mtrs
Dielectric Constant : ≥ 1.8
Max Temp/ Pr : 60°C/ 5 kg/cm²
MOC : SS304/316 + PTFE
Contacts : 5A, 250 VAC x SPDT
Enclosure : Cast Al. IP66
Set Points : 4 max
Option : Integral, Two part System

Conductivity Contamination - CCS



MOC : Brass
O/P : PNP, NPN
Protection : IP68
Mounting : Top, Side or Bottom
Max Temp : 80 °C
Max Pressure : 3 kg/cm²

Air Diaphragm - ADS



Range : 0.2 - 2 mtrs
Max Temp/ Pr : 60°C/ Atm
MOC : PP, SS316
Contact : 5A, 250 VAC x SPDT
Enclosure : Cast Al. IP66

Level Switch - Unitrol



MOC : SS304/ 316L
Insulation : PEEK
Max Temp / Pr : 200°C/ 100 bar
Dielectric Constant : ≥ 2
O/P : PNP, NPN
Protection : IP68

Vibrating Fork - VFSL



Insertion : 125 - 2500 mm (68 mm MVFSL)
Bulk Density : ≥ 0.5 g/cm³
Max Temp : 150 °C (80 °C MVFSL)
Max Pressure : 10 kg/cm², (1 kg/cm² MVFSL)
MOC : SS316
O/P : 5A, 250 VAC x DPDT, PNP
Enclosure : Cast Al. IP66 or Exd IIC, DIN Conn.
Options : Integral, Two Part System

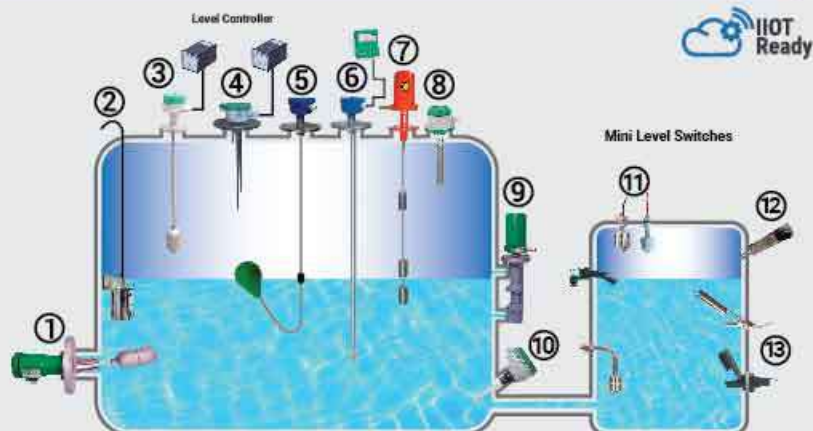
Capacitance Point Level - CPLS



Insertion Length : 150 or 300 mm
Dielectric Constant : > 2.1
Max. Temp/Pressure : 60 °C/Atm
Output : PNP or NPN
MOC : SS304 with PTFE insulation
Enclosure : ABS or Cast Al. IP66

Installation Arrangements

- ① Float Pivoted Switch
- ② Bilge Switch
- ③ Float Guided Switch x TLCF
- ④ Conductivity Switch x TLCN
- ⑤ Float Tilt Type
- ⑥ Capacitance
- ⑦ Displacer Switch
- ⑧ Air Diaphragm Switch
- ⑨ Chamber Float Switch
- ⑩ Capacitance Point level
- ⑪ Mini float Guided
- ⑫ Vibrating Fork Switch
- ⑬ Mini Float Pivoted



Level Switches for Solids

Rotary Paddle - RPLS



CE

Insertion Length : 200 - 1500 mm
Bulk Density : $\geq 0.5 \text{ g/cm}^3$
MOC : SS304
Max Temp : 200 °C
Max Pressure : 1 Atm
O/P : 5A, 250 VAC x SPDT or DPDT
Enclosure : Cast Al. IP66

Vibrating Fork - VFSS



Insertion Length : 250 - 2500 mm
Bulk Density : $\geq 0.5 \text{ g/cm}^3$
MOC : SS316
Max Temp/ Pr : 200°C/ 10 kg/cm²
O/P : 5A, 250VAC x DPDT
Enclosure : Cast Al IP66, Ex d IIC
Options : Integral, Two part

Vibrating Diamond Blade



Ex CE

Insertion Length : 170 - 6000 mm
Bulk Density : 20 g/L
MOC : SS304
Max Temp/Pr : 150°C, 10 Bar
Contacts : 8A, 250 VAC x SPDT
Enclosure : Cast Al. IP66/67, Ex d IIB or ATEX

Vibrating Rod - VRS



Ex CE

Insertion Length : 250 mm
MOC : SS304
Bulk Density : $\geq 0.5 \text{ g/cm}^3$
Max Temp : 125°C
Max Pressure : 10 Bar
O/P : 5A, 250 VAC x SPDT or PNP

RF Admittance - RFA



Insertion Length : 350 - 3000 mm
Max Temp/ Pr : 600 °C/ 10 kg/cm²
Dielectric Constant : ≥ 2
MOC : SS304/316
O/P : 5A, 250 VAC x DPDT
Enclosure : Cast Al. IP66 or Ex d IIB
Options : Integral, Two part

Disc RF Admittance - DRFA



Max Temp : 200 °C
MOC : SS304 + UHMWPE or PTFE
O/P : 5A, 250 VAC x DPDT
Enclosure : Cast Al. IP66

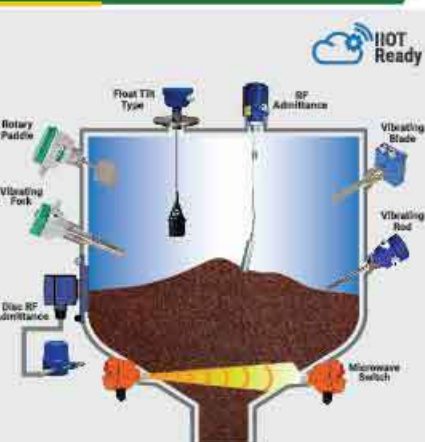
Cable Suspended Float - FTSS



Ex CE

Range : 5 - 30 mtrs
Float MOC : PP+ HR HY (IP68)
Cable : 3 core, 1 mm², Neoprene, Hypalon
Max Temp : 70°C
Contacts : 10 mA. 24 VDC/AC, SPDT

Installation Arrangements



Non - Contact Microwave - MWS



CE

Range : upto 40 mtrs
Max Temp : 180 °C
Max Pressure : 5 Bar
O/P : 2A, 30 VDC x SPDT
Enclosure : Cast Al. IP65

Level Transmitters for Liquids

Magnetic Float Guided - FGT



Range : 400 - 4000 mm
Liquid SG : ≥ 0.65
MOC : SS304/316/316L, PP, PVDF
Max Temp/ Pr : 150 °C/ 10 kg/cm²
O/P : 4-20 mA, RS-485, HART
Resolution : ± 12 mm or ± 6 mm
Enclosure : Cast Al. IP66 or Ex d IIC or ATEX

Capacitance - CPT



Range : 500 - 5000 mm
Dielectric Constant : ≥ 1.8
MOC : SS304/316 + PTFE
Max Temp/ Pr : 60 °C/ 5 kg/cm²
O/P : 4-20 mA
Accuracy : $\pm 2\%$ FS
Enclosure : Cast Al. IP66

Capacitance Fuel - CFT



Range : 100 - 800 mm
MOC : SS304
Max Temp/ Pr : 60 °C/ 2 kg/cm²
O/P : 4-20 mA, RS-485
Accuracy : $\pm 1\%$ FS
Enclosure : PP, IP68

Displacer with Torque Tube - DTT



Range : 300 - 3000 mm
Liquid SG : ≥ 0.3
MOC : SS316L
Max Temp/ Pr : 400 °C/ 60 kg/cm²
O/P : 4-20 mA + HART
Accuracy : $\pm 0.5\%$ FS
Enclosure : Cast Al. IP65 or Exd IIC or ATEX

Hydrostatic - HLT



'S' Type

'N' Type

Ranges : 2, 3, 5 200 mWC
Over Pressure : 1.5 x Range
MOC : SS316 (IP68) probe, PU cable
Max Temp/ Pr : 70 °C/ Atm
O/P : 4-20 mA
Accuracy : $\pm 0.5\%$ FS
Termination : Cable or Enclosure IP66 or Plug Connector

Differential Pressure - DPT



Range : 0.001 - 210 bar
Over Pressure : 1.5 x Range
MOC : SS316L, Hastalloy, Monel,
Enclosure : Cast Al. IP65
O/P : 4-20mA + HART
Accuracy : $\pm 0.15\%$ FS
Max Temp : 104 °C

Magnetostrictive - MLT



Range : 0.5 to 3mtrs
Liquid SG: ≥ 0.6
MOC : SS304/ 316
Max Temp/Pr: 120°C, 10 kg/cm²
O/P : 4-20mA
Accuracy : ± 1 mm
Enclosure : Cast Al. IP65

Ultrasonic Transmitter - Ultratrol



Ranges : 5, 10 mtrs (Integral)
Max Temp/ Pr : 70 °C / < 1 Bar
O/P : 4-20 mA
Accuracy : $\pm 0.5\%$ FS
Enclosure : ABS, IP65
Display : 4 digit LCD
X'ducer : Glass reinforced nylon 66

Ultrasonic Transmitter - Microflex DB



Ranges : 8, 12 mtrs (Integral)
Max. Temp/ Pr: 60°C, 3 bar
O/P: 4-20mA + HART
Accuracy: $\pm 0.25\%$ FS
Display: 4 digit LCD
Enclosure: Powder ctd. Al. IP67
X'ducre MOC: PVDF

Level Transmitters for Liquids

Ultrasonic Transmitter - Ultraxt



CE

Range : 12 mtrs (Integral)
Max Temp/ Pr : 60 °C / 3 bar
O/P : 4-20 mA + HART
Accuracy : $\pm 0.25\%$ FS
Display : 4 digit LCD
Enclosure : Pwdr Ctd Al. IP67
X'ducer : PVDF

Ultrasonic Transmitter - UltraXI



CE

Ranges: 6,10 mtrs (Integral)
Max Temp/ Pr : 60 °C / 1 bar
O/P : 4-20mA + HART
Accuracy : $\pm 0.15\%$
Enclosure: Aluminum IP67,
Display: 5 digit, OLED
X'ducer: PVDF
Option: ATEX intrinsically safe

Ultrasonic Transmitter - Ultra XR



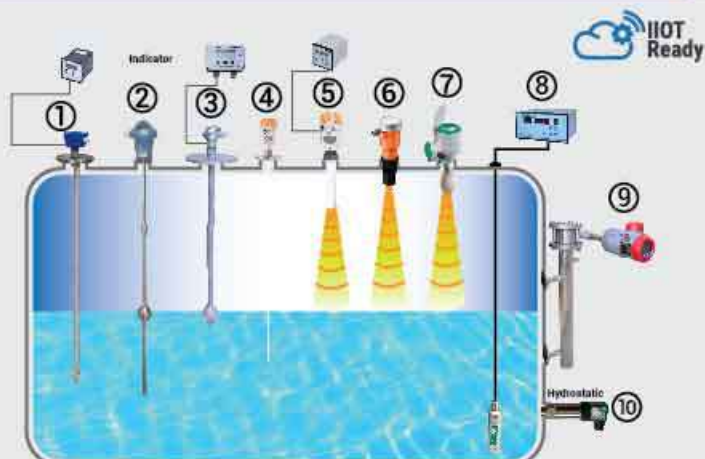
Range : 20 mtrs (Integral)
Max Temp/ Pr : 70 °C / < 1 Bar
O/P : 4-20 mA + HART
Accuracy : $\pm 0.5\%$ FS
Enclosure : Aluminum IP65
Display : 4 digit LCD
X'ducer : PVC

Techtrol Display Instruments, Converter & IIoT Gateway

	Level Controller (TLC)	Indicator Controller (TLIC)	Universal Indicator (TUIC)	Loop Powered (LP-Cator)	Scanner (TSCN)	Data Acquisition System (DAS)
Panel Mtd						
Ex-proof Wall Mtd						
				WP Wall Mtd		
					Signal Converter 'TSC'	IIoT Gateway

Installation Arrangements

- ① Capacitance Transmitter x TLIC
- ② Magnetostrictive
- ③ Float Guided Transmitter x LP-Cator
- ④ G-TROL (TDR)
- ⑤ IINTROL x TUIC
- ⑥ Ultrasonic Transmitter
- ⑦ Senatrol
- ⑧ Hydrostatic submersible x Datalogger
- ⑨ Displacer
- ⑩ Hydrostatic Non-submersible



Radar Transmitters for Liquids & Solids

G-TROL (TDR)



- Range: upto 30 mtrs (Liquids & Solids)
- Dielectric Constant: ≥ 1.9
- Max Temp/ Pr: 250 °C/ 20 Bar
- MOC: SS304/316, PTFE ctd SS
- O/P: 4-20 mA
- Accuracy: ± 5 mm
- Enclosure: Cast Al. IP65

Centrol (TDR)



- Range: upto 38 mtrs (Liquids & Solids)
- Dielectric Constant: ≥ 1.5
- Max Temp/ Pr: 300 °C/ 40 Bar
- MOC: SS316L
- O/P: 4-20 mA+ HART
- Accuracy: ± 3 mm
- Enclosure: Al. IP66 or ATEX

Intrtol 81 Series (Radar)



- Range: upto 120 mtrs (Liquids & Solids)
- Dielectric Constant: ≥ 1.9
- Max Temp/ Pr : 120 °C/ 20 Bar
- MOC: SS316
- O/P: 4-20 mA+ HART
- Accuracy: ± 2 mm
- Enclosure: Cast Al. IP65
- Option: ATEX intrinsically safe

Intrtol 91 Series (Radar)



- Range: upto 70 mtrs (Liquids & Solids)
- Dielectric Constant: ≥ 2.5
- Max Temp/ Pr: 250 °C/ 3 Bar
- Antenna: Horn (SS), Sealed Rod (PVDF)
- O/P: 4-20 mA, or 4-20 mA+ HART
- Accuracy: ± 3 mm
- Enclosure: Cast Al. IP67

Senatrol (FMCW Radar)



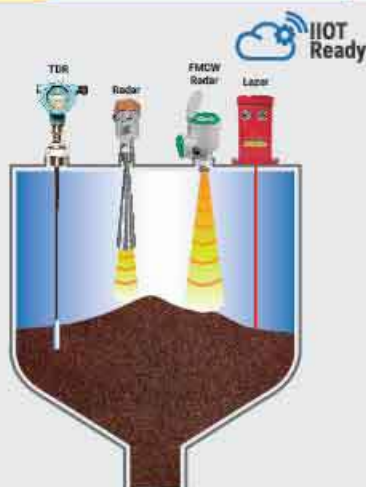
- Range: upto 100 mtr (Liquid & Solids)
- Frequency: 80 GHz
- Dielectric Constant: > 1.4
- Max. Temp/Pr: 150 °C/ 40 bar
- Antenna : PEEK lens
- O/P : 4-20mA + HART
- Accuracy: ± 2 mm
- Enclosure: Aluminum, IP66/68

Laser Transmitter (AL 40/AL100)



- Range: Upto 40, 100 mtrs (Solids)
- Beam Angle: 1°
- Max Temp: 60°C
- Max Pressure: Atm
- O/P: 4-20 mA
- Accuracy: $\pm 0.1\%$ FS
- Enclosure: Al. pwdr ctd. IP65

Installation Arrangements



Onsite Calibration



Instrument Calibration Services

- Done professionally by trained engineers
- By comparison method using standard instruments with traceability
- Calibration certificate provided



Tank Calibration Services

- Done professionally by trained engineers
- External & internal tank dimensions measurement by measuring tape and laser device with traceability.
- Internal tank volume taken into account
- Comprehensive calibration table & certificate is provided

Level Measurement in Marine

Tubular - TTG



CE

Gauge: Borosilicate Glass
 CCD: 400 - 1500 mm
 Max Temp/ Pr: 200 °C/ 10 kg/cm²
 MOC: CS, SS304/316
 Guards: 'C' Channel or Tie Rod
 Isolating Valves: Spring Loaded

Reflex - RFG



CE

Gauge: Soda Ash/ Borosilicate Glass
 CCD: 170 - 2000 mm
 Max Temp/ Pr: 400 °C/ 210 kg/cm²
 MOC: CS, SS304/316
 Isolating Valves: Spring Loaded or Weighted Lever

Magnetic - MLG



CE

CCD: 300 - 5000 mm
 Liquid SG: ≥ 0.5
 Max Temp/ Pr: 400 °C/ 300 kg/cm²
 MOC: SS304/316
 Indicator: Capsule or bicolor flappers with IP65 or Hermetic sealing
 Options: Alarm Switches (max 4), X'mitter
 Isolation Valve: Weighted Lever

Float & Dial - FDG



Range: 1 - 10 mtrs
 Liquid SG: ≥ 0.8
 Max Temp/ Pr: 100 °C/ Atm
 MOC: SS304/316/316L, ECTFE ctd SS
 Enclosure: Cast Al. IP66
 Options: Alarm Switch (max 2), X'mitter

Float Guided - FGS



CE

Range: 100 - 3000 mm
 Liquid SG: ≥ 0.65
 Max Temp/ Pr: 150 °C/ 10 kg/cm²
 MOC: SS304/316
 Contacts: 40/120VA (NO), 60VA (C/O)
 Hermetically sealed reed switch
 Enclosure: Cast Al. IP66 or Ex d IIB/IIC or ATEX
 Preset levels: 1 - 4 (single or multiple floats) with Insitu Test Device

Displacer - DS



CE

Range: 0.2 - 15 mtrs
 Liquid SG: ≥ 0.8
 Max Temp/ Pr: 300 °C/ 100 kg/cm²
 MOC: SS304/ 316/ 316L
 Contacts: 5A, 250 VAC x 2SPDT, hermetically sealed
 Enclosure: Cast Al. IP66, Ex d IIC, ATEX
 Preset Levels: 3 max

Float Pivoted - FPS



CE

Liquid SG: ≥ 0.6
 MOC: SS304/316
 Contacts: 5A, 250VAC x SPDT/DPDT, Hermetically sealed switch
 Enclosure: Cast Al. IP66 or Ex d IIC or ATEX
 Max Temp/Pr: 350 °C/ 20 kg/cm²
 In Situ Test Device: SS202

Bilge - TBS



CE

Liquid SG: ≥ 0.8
 Max Temp: 100 °C
 Max Pressure: 10 kg/cm²
 MOC: SS316
 Contacts: 60VA x SPDT Reed Switch
 Hermetically sealed
 In Situ Test Device: SS304
 Ingress Protection: IP68

Hydrostatic - HLT



S Type

N Type

Ranges: 2, 3, 5 200 mWC
 Over Pressure: 1.5 x Range
 MOC: SS316 (IP68) probe, PU cable
 Max Temp/ Pr: 70 °C/ Atm
 O/P: 4 - 20 mA
 Termination - Cable, Plug Connector IP66
 Enclosure

Water/Steam Level Measurement in Boilers

Multi Probe Electronic Drum Level Indicator - Aquarian 1000 Plus & 3000 Mini



IBR

- Probes: SS304, 1 to 24
- Column MOC: CS A-106, P11, P22
- Max Temp: 1200 °F
- Max Test Pressure: 3000 psi
- O/P: 8A, 24 VDC/120 VAC (SPDT), 4-20 mA
- Local display, option of remote display

Spare / retrofit Fossil Braze Probes for Aquarian Column



- SS304 High integrity zirconium oxide ceramic insulated probes for steam
- Max Pressure: 3000 psi
- Gasket: Monel, Sliver sealing gasket
- Life: 10 years expected
- Retrofitted for Clark Reliance & Level State

Tubular - TTGB



IBR CE

- Gauge: Tempered Borosilicate
- CCD: 300 - 1500 mm
- MOC: CS (SA 516 Gr 70), SS316
- Max Temp: 200 °C
- Max Test Pressure: 10 kg/cm²
- Process Conn: Flanged, Socket weld

Reflex - RFGB



IBR CE

- Gauge: Tempered Borosilicate
- CCD: 320, 400, 500, 508 mm
- MOC: CS (SA516 Gr. 70), SS316
- Max Temp: 243 °C
- Max Test Pressure: 64 kg/cm²
- Process Conn.: Flanged or Socket Weld

Transparent - TFGB



IBR CE

- Gauge: Tempered Borosilicate
- CCD: 320, 400, 500, 508 mm
- MOC: CS (SA516 Gr. 70), SS316
- Max Temp: 300 °C
- Max Test Pressure: 160 kg/cm²
- Process Conn.: Flanged or Socket weld

Bicolor - TBLG



IBR

- Gauge: Aluminosilicate Glass
- CCD: 500 - 1800 mm
- MOC: CS (SA 516)/A105, SS304/316
- No of Ports: 5 to 21
- Process Connection : Flanged, Socket weld
- Max Temp: 300 °C
- Max Test Pressure: 160 kg/cm²
- Indication: Water (Green), Steam (Red)

Magnetic- MLGB



IBR CE

- CCD: 400 - 2000 mm
- Liquid SG: ≥ 0.8
- MOC: SS316
- Max Temp: 250 °C
- Max Test Pressure: 50 kg/cm²
- Indicator: Bicolor Flappers
- Process Connection : Flanged
- Options: Alarm Switches (max 4 no), X'mitter

Vertical Level Control - VLC



IBR

- CCD: 200 - 500 mm
- Liquid SG: ≥ 0.8
- Max Temp: 300 °C
- Max Test Pressure: 50 kg/cm²
- MOC: SS316 float + CS chamber
- Contacts: 5A, 250 VAC x SPDT
- Enclosure: Cast Al. Base + CS Pwdr ctd cover

Float Pivoted - FPSB



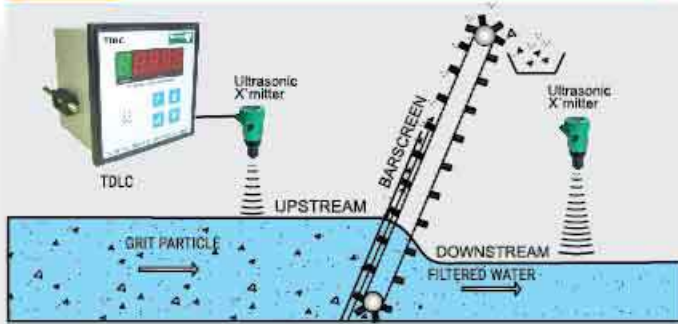
IBR CE

- Liquid SG: ≥ 0.6
- MOC: SS316
- Contacts: 5A, 250VAC x SPDT/DPDT, hermetically sealed
- Enclosure: Cast Al IP66 or Ex d IIC or ATEX
- Max Temp: 350 °C
- Max Pressure: 20 kg/cm²

Level Control & Monitoring System

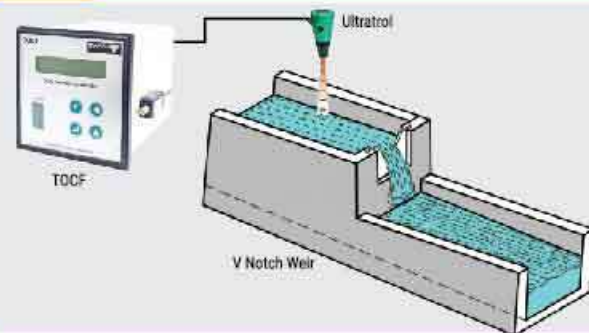
Pune Techrol has designed smart systems to provide integrated solutions required for process automation and monitoring for better control of various processes to maintain quality of end products and increase plant efficiency.

Bar Screen Differential Level Control- TBDS



- Ultratrol (2 nos) + Diff. Level Controller ; Range : upto 12 mtrs
- Output: 4 x Relay SPDT ; Indication: Differential level
- Max. Temp/Pr: 60 °C/ 1 bar
- Application: Bar screen control at WTP, STP & ETP

Open Channel Flow - TOCF



- Ultratrol + Flow meter ; Head Height : upto 5 mtrs
- Indication: Flow rate, totalized flow
- Output: 4 x Relay SPDT ; Max. Temp : 60 °C
- Primary Element: V-notch, Rectangular weir, Parshall, Cut throat flume

Tank Content Gauging - TCGS



- Service: Water, Fuel Oils
- Sensor: Hydrostatic X'mitter
- Display: 10" HMI (Main Deck, Bridge Console, Pump Room)
- Indication: Volume, Weight & Level
- Supply: 230 VAC or 24 VDC

Customized Automation System

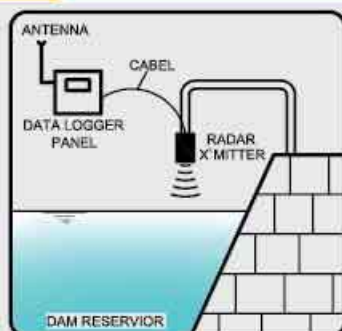


Automatic Water Level Recorder - AWLR



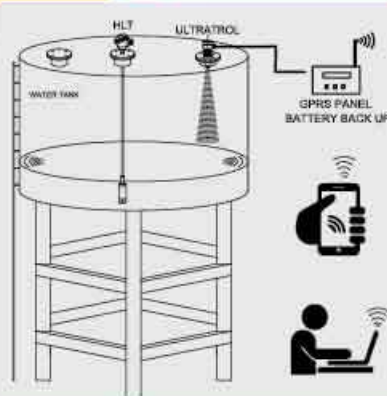
- X'mitter: Hydrostatic, Ultrasonic
- Range: 1, 2 ...50, 100, 200 mWC
- Data logger: 1, 4, 8 channels
- Read out: Indicator, Mobile, PC
- Max Temp/Pr: 70 °C, 1 bar
- Option: Wireless GSM/GPRS
- Applications - Bore well, reservoir level remote monitoring

Dam Water Level Monitoring- BDM



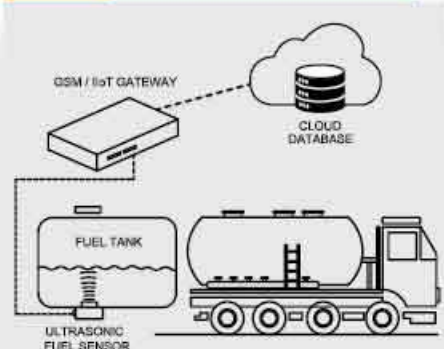
- Ultrasonic / Radar Transmitter with Data logger Panel.
- Option of GSM or IIoT gateway for wireless communication

Battery Operated Level Monitoring - BOM



- Hydrostatic / Ultrasonic Transmitter with Battery operated Data logger and Remote Monitoring

Fuel Monitoring through Wall - FMW



- Ultrasonic through the wall sensor with indicator for level monitoring of diesel tanks in trucks & generators

RF Wireless Automation System - TWC



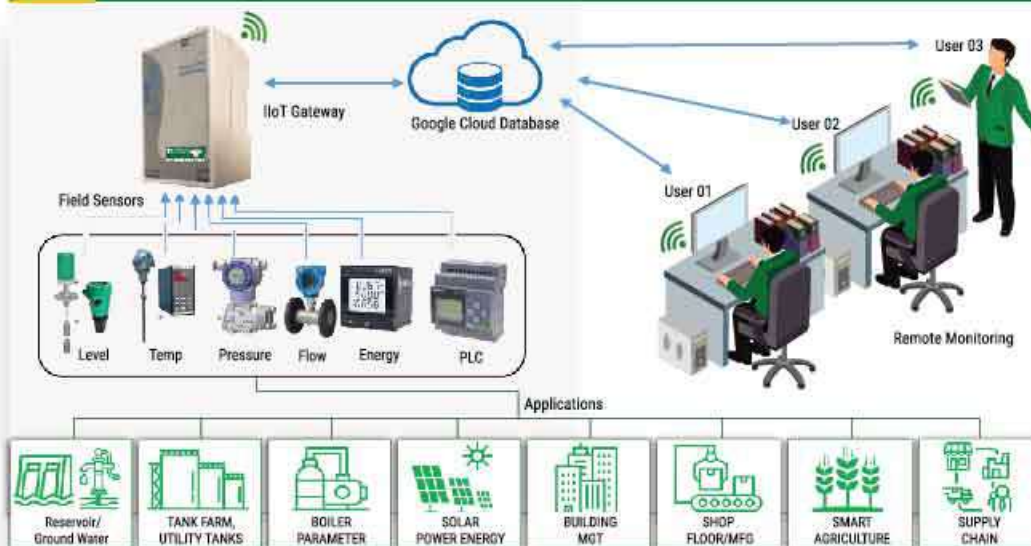
- Wireless transmission (LoRa) of real time data upto 40 km
- Bidirectional communication to execute control action
- Input : 4 Digital, 2 Analog
- Output: 4 Digital, 2 Analog
- Applications: Wireless process automation, remote monitoring using IIoT Gateway

Foam Detection & Control - FDC



- Probe: SS316 x 4 mtrs
- Sensitivity: 0.35 to 100 K Ohm
- Max Temp: 150°C
- Max Pressure: 10 Bar
- O/P: 5A, 250 VAC x 2SPDT or 4-20 mA
- Enclosure: Poly carbonate, IP65

IIoT based Customized Solutions



- Remote Wireless Monitoring of real time data (analog/digital) anywhere, anytime with analytical reports
- Input : 2/4/8 slaves (RS-485)
- 4 configurable alert Emails.
- Optional - GSM based control system
- Applications-Ground/dam level, agriculture & smart cities, energy, supply chain, Shop floor, utility

Installation



Browser View- Dashboard, Trend Graphs

Sl. No.	Sensor	Last Reading time	Relative	Last Reading Value	Unit	Status	In Status since	Trend Graph
1.	RAW JUICE (SUGAR)	Jan-20 00:01:39	1mon ago	2.2	THP			
2.	SATA PRO STEAM FLW (SUGAR)	Jan-20 00:01:39	1mon ago	-0.1	THP			
3.	MELT FLOW (SUGAR)	Jan-20 00:01:39	1mon ago	-0.12	m3/H			
4.	SYRUP BRIX (SUGAR)	Jan-20 00:01:39	1mon ago	54.8	%			
5.	GEN POWER (32MW)	Jan-20 00:01:39	1mon ago	-9.05	MW			
6.	EXPORT MEGA WATT (32MW)	Jan-20 00:01:39	1mon ago	-2.5	MW			

On Mobile App



Auxiliary Products & Temperature Sensors

Sight Glass TSG-(F), TSG(D)



CE

- Type: Full View (F), Double Window(D)
- Gauge Glass: Toughened Borosilicate
- MOC: CS, A 105, SS304/316 (F, D type), PP(F Type)
- Max Temp: 150 °C
- Max Pressure: 10 kg/cm²
- Flange size: 15 to 100 NB

External Chamber - ECS



IBR CE

- For side/top mounted Switches/ X'mitter
- MOC: CS, A 105, SS304/ 316, PP
- Max Temp: 350 °C
- Max Pressure: 10 kg/cm²

Water Alarm Gadget - TWAG



- Liquid SG: ≥ 0.7
- Max Temp: 80°C
- Max Pressure: 10 kg/cm²
- MOC: SS304, Borosilicate Glass
- Termination: Cast Al. IP66 or Plug Conn.
- Contacts: 60 VA x 2 SPDT

Thermocouple



- Types: T, J, K, R, S, E, D, N, B
- Insertion Length: 0.02 to 3 mtrs (Rigid), 50 mtrs (Flexible)
- MOC: SS304/316, Inconel, Monel, Alumina
- Temp Range: 0 to 1700 °C
- Enclosure: Cast Al. IP66 or Ex d IIB/C, ATEX
- Options: Simplex, Duplex
- Controller: Panel mtd: Wall Mtd Exd IIB

RTD



- Types: PT100/1000
- Insertion Length: 0.025 to 3 mtrs (Rigid), 50 mtrs (Flexible)
- MOC: SS 304/316, Ti, Inconel, Monel, PTFE
- Temp Range: -200 to 600 °C
- Enclosure: Cast Al. IP65, Ex d IIB/C, ATEX
- Options: Simplex, Duplex
- Controller: Panel mtd: Wall Mtd Exd IIB

RTD with Indicator



- PT100 sensor, Temp Range: upto 300°C
- O/P: 4-20mA
- Indication: 4 digit Display With DIN Connector

Thermowell



IBR

- Types: Fabricated, Barstock
- Insertion Length: 10 to 3000 mm
- MOC: SS304/316, Inconel, Monel
- Max Temp: 1200 °C
- Max Pressure: 250 kg/cm²
- Pr. Conn: Weld-In, Threaded, Flanged, Sanitary or Vanstone

Temperature Transmitter



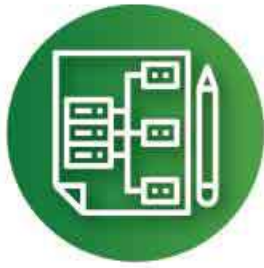
- Input: All types of thermocouple & RTD
- Supply: 7.5 to 45 VDC
- O/P: 4-20 mA
- Mounting: Head Mtg. or DIN Rail

Temperature Gauge



- Types: Bimetallic or Gas filled
- MOC: SS stem & housing
- Dial Size: 4", 6"
- Entry: Bottom, back or all angle

Turn-key Automation Systems



**System Design
& Architecture**



**Project
Engineering**



**Equipment Selection
& Procurement**



System Integration



Inspection



**Installation
& Commissioning**



**Operational Management
of Utilities**



Energy Conservation

We provide turnkey solutions for process automation as well as electrical systems to chemical, pharmaceuticals, biotech industries, electrical power generating stations, water treatment and eluent treatment plants..



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MAGNETIC FLOAT GUIDED LEVEL SWITCH
TECHTROL LEVEL INDICATOR
CONTROLLER COUNTER & TOTALISER T-SCN
REFLEX FLAT GLASS LEVEL GAUGE - RFG
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LEVEL MEASUREMENT TANK MONITORING
TTMS TECHTROL FULL VIEW SIGHT GLASS INSTRUMENT CHAMBER
TAPS HYDROSTATIC LEVEL TRANSMITTER WATER ALARM GADGET
MINI FLOAT GUIDED LEVEL SWITCHES CALIBRATION POT
MINI FLOAT PIVOTED LEVEL SWITCHES FOR LIQUIDS
TANK CONTENT GAUGING SYSTEM VIBRATING ROD
BITUMEN FLOAT - FLB
THERMOCOUPLE
GUIDED WAVE RADAR
GAUGES MFCG
ULTRACOMP REFLEX LR ULTRASONIC TRANSMITTER - ULTRACOMP CMLG
ULTRASONIC (NON CONTACT) LEVEL TRANSMITTERS
SURESENSE FOAM CONTROL - DI FOAM FOAM CONTROL - MULTI SENSE
VIBRATING DIAMOND MINI TUBULAR LEVEL GAUGE CABLE SUSPENDED TILT SWITCHES
DISC RF ADMITTANCE TBLG MAGNETIC FLOAT OIL GAUGE DRFA MINI DIPSTICK GAUGE
VERTICAL LEVEL CONTROL SWITCHES BI-COLOR MULTI PORT LEVEL GAUGE
DIPSTICK GAUGE COMPACT MAGNETIC LIQUID LEVEL GAUGE
WELD PAD LEVEL GAUGE MFCG MAGNETIC LIQUID LEVEL GAUGES
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- Level Transmitters for Liquids & Solids
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- Temperature Sensors & Thermowells
- IIoT based Process Monitoring System
- Turn-key Automation Systems

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📍 Regd. & Sales: S-18, MIDC Bhosari
Works: J-52/7, MIDC Bhosari, Pune - 411026, India
☎ Office: +91-20-67313600; Works +91-20-66342900
✉ Email: ho@punetechtrol.com
🌐 www.punetechtrol.com
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