

Innovating Level Controls
in Liquids & Solids
SINCE 1984



ISO 9001-2008 COMPANY

Pune Techtrol Pvt. Ltd.





Innovating Level Controls Since 1984



ABOUT US

Pune Techtrol Pvt. Ltd. has evolved from a six employee enterprise, in 1984 to become a premier Indian company recognized for quality level measurement and process automation systems for liquids & solids. We are an ISO 9001 2008 Company located in the Industrial belt of Pune, around 180 kms from Mumbai, the commercial capital of India. Pune is famous globally for quality instrumentation industries with ample skilled & talented work force. 'Techtrol' is recognized as most reliable & trusted brand, delivering quality products unsurpassed in terms of accuracy, workmanship, performance, safety & ease of installation, providing long uninterrupted service in wide & varied industrial applications. Our products are designed & engineered for optimal performance and with practical experience gained over last several years has equipped us, to meet the most demanding user requirements.

Our technical support to customer starts from the enquiry stage, through proper selection & guidance, right up to supervision of installation & calibration at site. This is accomplished through large network of experienced representatives & distributors backed by our team of enterprising sales & service engineers.

Our people are our strength and as such our prime philosophy is to respect them as individuals with inherent skills, to be channelized to create value for our society & country. We believe that, our reputation and our product quality & services are a result of their team work and as such, it has been our endeavour to train them continuously for higher multi-skills and better understanding of our products & customer expectations of us.

VISION

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

MISSION

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

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

INNOVATIVENESS

It's a crucial part of our tradition and incrementally applied to all our activities – design, production method, work organization & conditions, material saving & substitution, product enhancement & customization, flexible delivery, supply & distribution process, enlargement of product range & services, training system to upgrade workforce skills and above all managerial outlook & approach. We understand the potential relevance of evolving technology and engage actively with customers to leverage over existing product platforms into new products & solutions.

OUR FACILITY

State of the art manufacturing facility: Well integrated & equipped modern infrastructure and machines, accurate testing and calibration setup. Qualified, skilled, resourceful and dedicated work force and engineers, who work in close consultation with the customers to deliver quality.

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. This will be achieved through effective quality management system, continual improvements and active participation of all our employees.

QUALITY OBJECTIVES

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

Techtrol Level Gauges For Liquids



Oil - OLG

- Gauge : Borosilicate Glass
- Range : 70 - 300mm CCD
- Max Temp : 100°C
- Max Pressure : 1Kg/cm²
- Wtd Parts : CS

CE



Mini Tubular - MTTG

- Gauge : Borosilicate Glass
- Range : 100 - 400mm CCD
- Max Temp : 100°C
- Max Pressure : 10 Kg/cm²
- Wtd Parts : SS304/SS316

CE



Tubular - TTG

- Gauge : Borosilicate Glass
- Range : 400 - 1500mm CCD
- Max Temp - Pr : 200°C - 10 Kg/cm²
- Wtd Parts : CS, SS304/316, PP, PVDF
- Construction : 'C' Channel or Tie Rod
- Options : Autoball Check, Frost Free Extn, Illuminator, Steam Jacketing

CE IBR 



Tubular - TTG (Marine)

- Gauge : Borosilicate Glass
- Range : 400 - 1500mm CCD
- Max Temp - Pr : 200°C - 10 Kg/cm²
- Wtd Parts : CS, SS304/316
- Construction : 'C' Channel or Tie Rod
- Isolating Valves : Spring Loaded or Weighted Lever





Reflex - RFG

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

CE IBR 



Reflex - RFG (Marine)

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





Transparent - TFG

- Gauge : Soda Ash or Borosilicate Glass
- Range : 170 - 2000mm CCD
- Max Temp - Pr : 400°C - 210 Kg/cm²
- Wtd Parts : CS, SS304 /316, PP
- Options : Autoball Check, Frost Free Extn, Illuminator, Steam Jacketing

CE IBR 



Weld Pad - WFG

- Gauge : Soda Ash or Borosilicate Glass
- Range : 205 - 600mm
- Max Temp : 300°C
- Max. Pressure : 72 Kg/cm²
- Wtd Parts : CS, SS304/316

CE

Techtrol Level Gauges For Liquids



Magnetic - MLG

- Range : 300 - 5000mm CCD
- Liquid Density : $\geq 0.7 \text{ g/cm}^3$
- Max Temp - Pr : $400^\circ\text{C} - 10 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316, PP, PVDF
- Indication : Follower capsule or Bicolor Flappers
- Options : Alarm Switches, X'mitter, RS485, HART, Jacketing



Compact Magnetic - CMLG

- Range : 200 - 2000mm CCD
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $250^\circ\text{C} - 5 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316
- Indication : Follower capsule or Bicolor Flappers
- Options : Adj. Switches, X'mitter, RS485, HART, Jacketing



Float & Board - FBG

- Range : 1 - 15 mtrs
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $150^\circ\text{C} - \text{Atm}$
- Wtd Parts : SS304/316, PP
- Gauge Board : Aluminium
- Options : Sealpot, Alarm Switches



Float & Dial - FDG

- Range : 1 - 10 mtrs
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $100^\circ\text{C} - \text{Atm}$
- Wtd Parts : SS304/316, PVDF
- Enclosure : Cast Al x IP66
- Options : Alarm Switches, X'mitter



Float & Tape - FTG

- Range : Upto 20 mtrs
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $120^\circ\text{C} - \text{Atm}$
- Wtd Parts : SS316
- Enclosure : Cast Al x IP65
- Options : Alarm Switches, X'mitter, Counter



Dipstick - DLG

- Gauge : Borosilicate Glass
- Range : 500 - 3000mm
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $100^\circ\text{C} - 5\text{Kg/cm}^2$
- Wtd Parts : SS316, PVDF
- Options : Mini Dipstick with Temperature Sensor, Adj. Switch



Magnetic Float Content - MFCG

- Range : 400mm
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp : 70°C
- Max. Pressure : 3 Kg/cm^2
- Wtd Parts : SS304 with PU Float



Magnetic Float Dial - MFDG

- Range : 200 - 1200mm
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $100^\circ\text{C} - 4\text{Kg/cm}^2$
- Wtd Parts : SS304, PU
- Enclosure : Cast Al x IP66
- Option : Alarm Switches



Techtrol Level Switches For Liquids



Float Guided - FGS

- Range : upto 3000mm
- Liquid Density : $\geq 0.6 \text{ g/cm}^3$
- Max Temp - Pr : $150^\circ\text{C} - 10 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316, PP, PVDF
- Contacts : 40/120VA (NO), 60VA(C/O)
- Enclosure : Cast Al x IP66, Ex-P IIB/C
- Preset levels : 1- 4 (single or multiple floats)



Float Pivoted - FPS

- Liquid Density : $\geq 0.6 \text{ g/cm}^3$
- Max Temp : 350°C
- Max Pressure : 20 Kg/cm^2
- Wtd Parts : SS304/316, PP, PVDF
- Contacts : 5A, 250VAC x SPDT/DPDT
- Enclosure : Cast Al x IP66, Ex-P IIB/C



Float Pivoted - FPS (Marine)

- Liquid Density : $\geq 0.6 \text{ g/cm}^3$
- Max Temp : 350°C
- Max Pressure : 20 Kg/cm^2
- Wtd Parts : SS304/316
- Contacts : 5A, 250VAC x SPDT/DPDT
- Enclosure : Cast Al x IP66, Ex-P IIB/C
In situ Test Device



Bilge - TBS

- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp : 100°C
- Max Pressure : 10 Kg/cm^2
- Wtd Parts : SS316
- Contacts : 60VA x SPDT Reed Switch



Mini Float Guided - MFGS

- Liquid Density : $\geq 0.75 \text{ g/cm}^3$
- Max Temp - Pr : $100^\circ\text{C} - 5 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316, PP
- Contacts : 10VA x NO Reed Switch
- Mounting : Top



Mini Float Pivoted - MFPS

- Liquid Density : $\geq 0.7 \text{ g/cm}^3$
- Max Temp - Pr : $100^\circ\text{C} - 5 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316, PP
- Contacts : 10VA x NO Reed Switch
- Mounting : Side



Conductivity Contamination Sensor - CCS









- Max Temp : 80°C
- Max Pressure : 3 Kg/cm^2
- Wtd Parts : Brass
- O/P : PNP
- Protection : IP68



Control Units – TLCF/TLCN




- I/P : Float Switch for TLCF, Conductivity Switch for TLCN
- O/P : 5A, 250VAC x 4 SPDT
- Supply : 90 - 270VAC or 24 VDC
- Enclosure : Panel, Wall (IP65, Ex-P IIB)


Techtrol Level Switches For Liquids

			
DISC (D) *28°	BIP STOP (B) *110°	Biconical Large (A) *120°	Biconical Heavy (H) *165°
			
Biconical Ex-P (E) *25°	Biconical Aseptic (S) *25°	Tubular (T) *20°	Mini Tuba (M) *16°


Cable Suspended Floats - FTS

- Range : upto 15 mtrs
- Liquid Density : $\geq 0.75 \text{ g/cm}^3$
- Floats : 8 options
- Float MOC : PP, Hypalon
- Max Temp : 85°C
- Max Pressure : 5.5 Kg/cm^2
- Contacts : 2 or 3 or 8A, 250VAC x SPDT
- * Differential Angle




Aqua Medium
Internal Ballast (M)



Aqua XL
Internal Ballast (L)

Heavy Duty Cable Suspended Floats - HFTS

- Range : upto 15 mtrs
- Liquid Density : 0.75 g/cm^3
- Floats : 2 options
- Float MOC : PP
- Diff Angle : 10°
- Max Temp : 85°C
- Max Pressure : 3.5 Kg/cm^2
- Contacts : 4 or 8A, 250VAC x SPDT






Vertical Level Control - VLC


- Range : 200 - 500mm CCD
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : 300°C - 10 Kg/cm²
- Wtd Parts : CS, SS304/316
- Contacts : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP55



IBR



Chamber Float - CFS


- Range : 200 - 400mm CCD
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : 300°C - 10 Kg/cm²
- Wtd Parts : CS, SS304/316, PP
- Contacts : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP66, Ex-P IIB/C

 **IBR**

Floating Contamination Detector- FCCD

- Range : upto 10mtrs
- Liquid Conductivity : 25 us
- Max Temp - Pr : 80°C - Atm
- Wtd Parts : SS316
- O/P : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP66



Bitumen Float - FLB

- Insertion Length : upto 800mm
- Max Temp : 200°C
- Max Pressure : Atm
- Wtd Parts : SS304/316
- Preset Levels : One or Two
- Contacts : 40VA x NO
- Enclosure : MS x WP



Techtrol Level Switches For Liquids



Displacer - DS

- Range : upto 15 mtrs
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Max Temp - Pr : $300^\circ\text{C} - 40\text{Kg/cm}^2$
- Wtd Parts : SS304/316, PP, PVDF
- Contacts : 5A, 250VAC x 2SPDT
- Enclosure : Cast Al x IP66, Ex-P IIB/C
- Preset Levels : 1 - 4

CE  IBR



Water Alarm Gadget - TWAG

- Max Temp : 80°C
- Max Pres (Bar) : 3 (Glass) / 10 (SS304)
- Wetted Parts : SS304
- Enclosure : Plug in Connector
- Contacts : 60VA x 2SPDT



Conductivity - CNS

- Range : Upto 10 mtrs
- Liquid Conductivity : $\geq 25 \text{ us}$
- Max Temp - Pr : $100^\circ\text{C} - 5 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316
- Contacts : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP66, Ex-P IIB



Capacitance - CPS

- Range : Upto 5 mtrs
- Dielectric Constant : ≥ 1.8
- Max Temp - Pr : $60^\circ\text{C} - 5 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316
- Contacts : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP65



Air Diaphragm - ADS

- Range : upto 2000mm
- Max Temp - Pr : $60^\circ\text{C} - \text{Atm}$
- Wtd Parts : PP, SS316
- Contact : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP66



Vibrating Fork - VFSL

- Insertion Length : 125 to 2500mm
- Bulk Density : $\geq 0.5 \text{ Kg/m}^3$
- Max Temp - Pr : $150^\circ\text{C} - 10\text{Kg/cm}^2$
- Wtd Parts : SS304/316
- O/P : 5A, 250VAC x DPDT
- Enclosure : Cast Al x IP66, Ex-P IIB
- Options : Integral, Two Part



Compact Vibrating Fork - CVFSL

- Insertion Length : 125 to 2500mm
- Bulk Density : $\geq 0.5 \text{ Kg/m}^3$
- Max Temp - Pr : $150^\circ\text{C} - 10\text{Kg/cm}^2$
- Wtd Parts : SS304/316
- O/P : PNP
- Enclosure : Cast Al x IP66, Ex-P IIB



Mini Vibrating Fork

- Insertion Length : 69mm
- Bulk Density : $\geq 0.5\text{Kg/m}^3$
- Max Temp - Pr : $150^\circ\text{C} - 10 \text{ Kg/cm}^2$
- Wtd Parts : SS304/316
- O/P : PNP
- Enclosure : DIN Connector

Techtrol Level Switches For Solids



Rotary Paddle - RPLS

- Insertion Length : 200 - 1500mm
- Bulk Density : $\geq 0.5 \text{ g/cm}^3$
- Max Temp : 150°C
- Max Pressure : Atm
- Wtd Parts : SS304
- O/P : 5A, 250VAC x SPDT/DPDT
- Enclosure : Cast Al x IP66



Vibrating Fork - VFSS

- Insertion Length : 250 - 2500mm
- Bulk Density : $\geq 0.5 \text{ Kg/m}^3$
- Max Temp - Pr : 200°C - 10 Kg/cm²
- Wtd Parts : SS304/316
- O/P : 5A, 250VAC x DPDT
- Enclosure : Cast Al x IP66, Ex-P IIB
- Options : Integral, Two part



Vibrating Diamond Blade

- Insertion Length : 173 to 6000mm
- MOC : SS304
- Bulk Density : $\geq 20 \text{ Kg/m}^3$
- Max Temp : 50°C
- Max. Pressure : 10 Bar
- Contacts : 8A, 250VAC x SPDT
- Enclosure : Cast Al x IP66/67, Ex-P IIB



Vibrating Rod

- Insertion Length : 157mm
- MOC : SS304
- Bulk Density : $\geq 20 \text{ Kg/m}^3$
- Max Temp - Pr : 70°C - 10 Bar
- Contacts : 5A, 250VAC x SPDT
- Enclosure : Cast Al x IP66/67
- Option : Miniature with PNP o/p



RF Admittance - RFA

- Insertion Length : 350 - 3000mm
- Max Temp - Pr : 200°C - 10Kg/cm²
- Dielectric Constant : ≥ 2
- Wtd Parts : SS304
- O/P : 5A, 250VAC x DPDT
- Enclosure : Cast Al x IP 66, Ex-P IIB
- Options : Integral, Two part



Disc RF Admittance - DRFA

- Dielectric Constant : ≥ 2
- Max Temp : 200°C
- Wtd Parts : SS304
- O/P : 5A, 250VAC x DPDT
- Enclosure : Cast Al x IP 66



Soliba



Soliba - P



Soliba GP



Soliba Plus

Cable Suspended Tilt Detector

- Range : upto 20 mtrs
- Detectors : 4 options
- Float MOC : PP, Hypalon, SS
- Diff Angle : 10°
- Max Temp : 85 °C
- Contacts : 1 or 8A, 250VAC x SPDT



Techtrol Level Transmitters For Liquids



Magnetic Float Guided - FGT

- Range : 400 - 4000mm
- Liquid Density : $\geq 0.6 \text{ g/cm}^3$
- Wtd Parts : SS304/316, PP, PVDF
- Max Temp - Pr : $150^\circ\text{C} - 10 \text{ Kg/cm}^2$
- O/P : 4-20 mA, RS 485, HART
- Enclosure : Cast Al x IP66, Ex-P IIB/C



Capacitance - CPT

- Range : Upto 5000mm
- Dielectric Constant : ≥ 1.8
- Wtd Parts : SS304/316
- Max Temp- Pr : $60^\circ\text{C} - 5\text{Kg/cm}^2$
- O/P : 4-20 mA, RS485
- Enclosure : Cast Al x IP66



Capacitance Fuel - CFT

- Range : 200 -1000mm
- Dielectric Constant : ≥ 1.8
- Wtd Parts : SS304/316
- Max Temp - Pr : $60^\circ\text{C} - 2\text{Kg/cm}^2$
- O/P : 4-20 mA, RS485
- Enclosure : Cast Al x IP66



Displacer with Torque Tube - DTT

- Range : 300 to 3000mm
- Liquid Density : $\geq 0.6 \text{ g/cm}^3$
- Wtd Parts : SS316
- Max Temp - Pr : $400^\circ\text{C} - 60 \text{ Kg/cm}^2$
- O/P : 4 - 20 mA
- Enclosure : Cast Al IP66, Ex-P IIC T6



Hydrostatic Submersible - SLT

- Range : 1 - 10 mWC
- Wtd Parts : SS316 probe, PU cable
- Max Temp - Pr : $70^\circ\text{C} - \text{Atm}$
- O/P : 4-20 mA
- Probe : SS316 x IP68



Hydrostatic - HLT

- Range : 1, 1.5, 2 mWC
- Max Temp - Pr : $70^\circ\text{C} - \text{Atm}$
- Wtd Parts : SS316
- O/P : 4-20 mA
- Option : Isolation Valve
- Enclosure : DIN Connector



Magnetostrictive - MLT

- Range : 500 - 1800mm
- Liquid Density : $\geq 0.8 \text{ g/cm}^3$
- Wtd Parts : SS316
- Max Temp - Pr : $80^\circ\text{C} - 20 \text{ Kg/cm}^2$
- O/P : 4-20 mA
- Enclosure : Cast Al x IP66, Ex-P IIB/C

Display Instruments



Loop Powered Indicator (TLPI)



Techtrol Controller Indicator (TLIC)



Universal Indicator (TUIC)

Techtrol Ultrasonic (Non Contact) Level Transmitters



For Liquids

Ultratrol

- Ranges : 5, 10 or 12 mtrs (Integral)
- Max Temp : 70°C
- Max Pressure : < 1 Bar
- O/P : 4-20 mA
- Enclosure : ABS x Ip65
- Option : 4-20mA + HART (**Ultraxt**)



For Liquids

Microflex

- Ranges : 8 or 11mtrs (Integral)
- Max Temp : 70°C
- Max Pressure : 3 Bar
- O/P : 4-20 mA
- Enclosure : Nylon x IP67
- Options : Intrinsically Safe, HART



For Liquids

Miniflex LR

- Range : upto 10mtrs (Two Part)
- Max Temp : 90°C
- Max Pressure : 3 bar
- O/P : 4-20 mA, 3 Relays
- Enclosure : PC x IP65
- X'ducer : PVDF x IP68



For Solids & Liquids

Microflex LR (MI)

- Range : upto 60 mtrs (Integral)
- Max Temp : 80°C
- Max Pressure : 2 Bar
- O/P : 4-20 mA
- Enclosure : PP/Teflon x IP 67
- Options : 2 Relays, RS485, HART



For Solids & Liquids

Microflex LR (MS)

- Range : upto 60 mtrs (Integral)
- Max Temp : 80°C
- Max Pressure : 2 Bar
- O/P : 4-20 mA
- Enclosure : PP/Teflon x IP 68
- Option : RS485



For Solids & Liquids

Reflex LR

- Range : 60 mtrs (Two Part)
- Max Temp - Pr : 80°C - 2 Bar
- O/P : 4-20 mA
- Enclosure : PC x IP65
- X'ducer : PP/Teflon x IP68
- Options : RS485, HART



X'mitter

Receiver

Microwave Level Switch - MWS

- Range : upto 40 mtrs
- Max Temp : 55°C
- Max Pressure : 5 Bar
- O/P : 2A, 30VDC x SPDT
- Enclosure : Cast Al x IP65



Techtrol Radar Level Transmitters for Liquids & Solids



G-TROL (TDR)

- Range : upto 30mtrs
- Dielectric Const : > 1.9
- Max Temp - Pr : 250°C - 20 Bar
- Wtd Parts : SS304/316, PTFE
- O/P : 4 - 20 mA
- Enclosure : Cast Al x IP67



Reflex VF2 (TDR)

- Range : upto 40 mtrs
- Dielectric Const : > 1.8
- Max Temp - Pr : 300°C - 40 Bar
- Wtd Parts : SS316L
- O/P : 4-20 mA, HART
- Enclosure : Cast Al x IP66/67



Reflex VF03 (TDR)

- Range : upto 24 mtrs
- Dielectric Const : > 1.5
- Max Temp - Pr : 200°C - 40 Bar
- Wtd Parts : SS316/316L, PTFE
- O/P : 4-20 mA, HART
- Enclosure : Cast Al x IP66, EExia



Reflex VF7 (TDR)

- Range : upto 35 mtrs
- Dielectric Const : > 1.1
- Max Temp - Pr : 300°C - 40 Bar
- Wtd Parts : SS316L, PTFE
- O/P : 4-20 mA, HART
- Enclosure : Cast Al x IP66/67, EExd/EExia



For Liquids

VG5 (FMCW)

- Range : upto 30 mtrs
- Dielectric Const : > 1.8
- Max Temp - Pr : 150°C - 40 Bar
- Antenna : PP, PTFE, SS316L
- O/P : 4-20 mA, HART
- Enclosure : Cast Al x IP66/67, ATEX



For Solids

VG6 (FMCW)

- Range : upto 80 mtrs
- Dielectric Const : > 1.5
- Max Temp - Pr : 200°C - 40 Bar
- Antenna : Drop(PP, PTFE), Horn(SS316L),
- O/P : 4-20 mA, HART
- Enclosure : Cast Al x IP67



VG7 (FMCW)

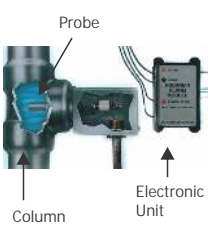
- Range : upto 80 mtrs
- Dielectric constant : > 1.5
- Max Temp - Pr : 200°C - 40 Bar
- Antenna : Horn (SS316L)
- O/P : 4-20 mA HART
- Enclosure : Cast Al x IP66/67, EExd/EExia



Introl

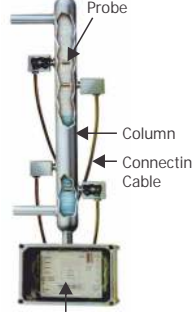
- Range : upto 30 mtrs
- Dielectric Const : > 2.5
- Max Temp - Pr : 250°C - 40 Bar
- Antenna : Horn (SS), Sealed Rod (PVDF)
- O/P : 4-20mA, or 4-20 mA HART or RS485
- Enclosure : Cast Al x IP67

Water/Steam Level Measurement in Boilers



Single Probe Electronic Drum level Alarm (Aquarian SP)

- Probe : SS304, Single
- Max Temp : 500°F
- Max Pressure : 650 psi
- Column MOC : CS A-106, SS
- O/P : 3A, 120VAC/ 24VDC x SPDT



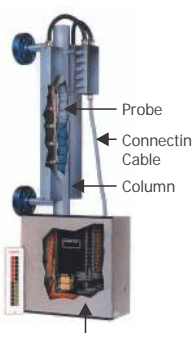
Multi Probe Electronic Drum Level Indicator (Aquarian 1000 Plus)

- Probes : SS304, 1 to 4
- Max Temp : 1200°F
- Max Pressure : 3000 psi
- Column MOC : CS A-106, P11, P22, SS
- O/P : 10A, 24VDC/120VAC x SPDT



Electronic Drum Level Indicator with Vertical Probes

- Probes : 1 to 5
- Max Temp : 700°F
- Max Pressure : 1000psi
- Column MOC : CS A-106, P11, P22, SS
- O/P : 10A, 24VDC/120VAC x SPDT



Multi Probe Electronic Drum Level Indicator (Aquarian 3000 Mini)

- Probes : SS304, 5,8,10,12,16,20 or 24
- Max Temp : 1200°F
- Max Pressure : 3000 psi
- Column MOC : CS A-106, P11, P22, SS
- O/P : 4-20mA, 10A, 120VAC x SPDT



Fossil Bicolor Level Gauge - Aquarian 3000 Visual

- Gauge : Aluminosilicate Glass
- Range : 600 - 1500mm CCD
- No of Ports : 5 to 21
- Max Temp-Pr : 696°F - 3000 psi
- Wtd Parts : CS, SS304L
- Indication : Water (Green), Steam (Red)
- Options : Display Hood, CCTV



Techtrol Bicolor Level Gauge - TBLG

- Gauge : Aluminosilicate Glass
- Range : 600 - 1500mm CCD
- No of Ports : 5 to 21
- Max Temp - Pr : 300°C - 70 Kg/cm²
- Wtd Parts : CS, SS304/316
- Indication : Water(Green), Steam (Red)



Fossil Brazed Probes for Aquarian water/steam columns

Specially designed, high integrity zirconium insulated probes for steam / water applications having conductivity up to 0.25 micro mohs under 3000 psi and 1200°F. They are 100% gas tested, hydro-tested up to 6000 psi and supplied with Monel, Silver sealing gasket with 10 years life expectancy.

Over 60,000 in service

Fossil Conductivity Probes for Retrofitment

Fossil Part No.		Model/ Make
9300-0007	To Retrofit	ZG (Clark Reliance)
9300-0006	To Retrofit	FG (Clark Reliance)
9300-0015	To Retrofit	V (Clark Reliance)
9300-0013	To Retrofit	T (Clark Reliance)
9300-0031	To Retrofit	802 (Level state)

Techtrol Foam Detectors

Foam Detection - Suresense

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

CE Ex

Foam Control - Multi sense

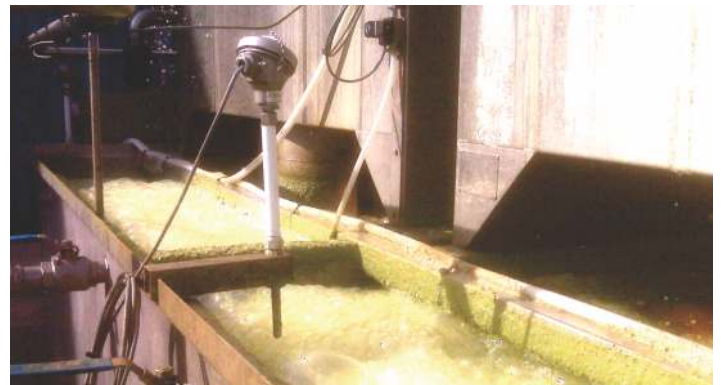
- Probe : SS316L x 6 mtrs
- Max Temp : 250°C
- Max Pressure : 25 Bar
- Channels : 8,16 or 24
- O/P : 4 - 20mA (2 no)
- Enclosure : PC x IP65

CE

Foam Control - Di foam

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

CE



Techtrol Temperature Sensors

Thermocouple

- Types : T, J, K, R, S, E, D, N, B
- Insertion Length : 3mtrs (Rigid), 50mtrs (Flexible)
- Wtd Parts : SS304/316, Inconel, Monel, Alumina
- Temp Range : 0 to 1700°C
- Enclosure : Cast Al x IP65, Ex-P IIB/C
- Options : Simplex, Duplex

Resistance Temperature Detector - RTD

- Types : PT100/500/1000
- Insertion Length : 3mtrs (Rigid), 50mtrs (Flexible)
- Wtd Parts : SS 304/316, Ti, Inconel, Monel, PTFE
- Temp Range : -200 to 600°C
- Enclosure : Cast Al x IP65, Ex-P IIB/C
- Options : Simplex, Duplex

Thermowell

- Types : Fabricated, Barstock
- Insertion Length : 3000mm
- Wtd Parts : SS304/316, Inconel, Monel
- Max Temp : 1200°C
- Max Pressure : 250 Kg/cm²
- Options : Flange / Screwed connection

IBR

Temperature Transmitter

- Input : Thermocouple, RTD
- Supply : 7.5 to 45 VDC
- O/P : 4-20 mA
- Amb Temp : 40 to 85°C
- Enclosure : PC x IP66

Techtrol Auxiliary Products



Calibration Pot - TCP

- Range : 100 - 20000ml (Vol.)
- Jar : Glass or SS
- Max Temp : 70°C
- Max Pressure : 5Kg/cm²
- Wetted Parts : SS304/316

CE



Full View Sight Glass - TSG (F)

- Line Size : 1" to 4"
- Gauge Glass : Tempered Borosilicate
- End Block MOC : PP, CS, SS304, SS316
- Max. Temp : 150°C
- Max. Pressure : 10 Kg/cm²

CE



External Chamber - ECS

- For : Side Mtd Switch / X'mitter
- Wtd Parts : CS, SS304/316, PP, Rubber Lined
- Max Temp : 100°C
- Max Pressure : 10 Kg/cm²

CE IBR



External Chamber - ECT

- For : Top Mtd Switch / X'mitter
- Wtd Parts : CS, SS304/316, PP, Rubber Lined
- Max Temp : 100°C
- Max Pressure : 10 Kg/cm²

CE IBR



External Chamber - ECR

- For : Top Mtd Radar (TDR)
- MOC : CS, SS304/316/321, P5
- Max Temp : 300°C
- Max Pressure : 1500 #

CE IBR



Tank Monitoring Software - TTMS

- Display : Graphical Presentation of Level
- Channels : 1, 8 or 16
- Inputs : RS 485 from Techtrol Display Instruments



Customised Control Panel - CCP

- Panels : CRCA Epoxy Coated
- Pump Rating : upto 15 HP
- Supply : 230VAC (1ph); 415 VAC (3ph)
- Logic : Alarm / Pump / Valve Control / PLC based Data Acquisition & Control System



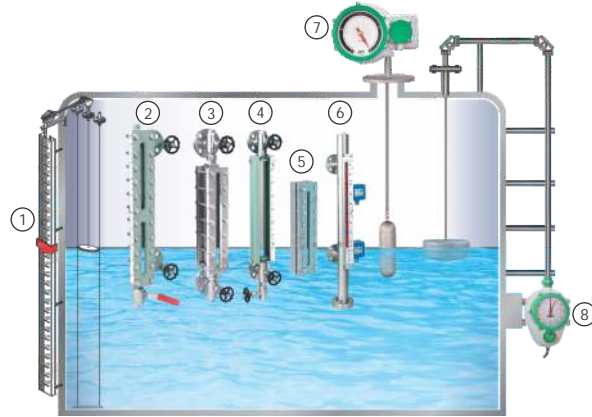
Tank Content Gauging System

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

Typical Field Mounting of Techtrol Instruments

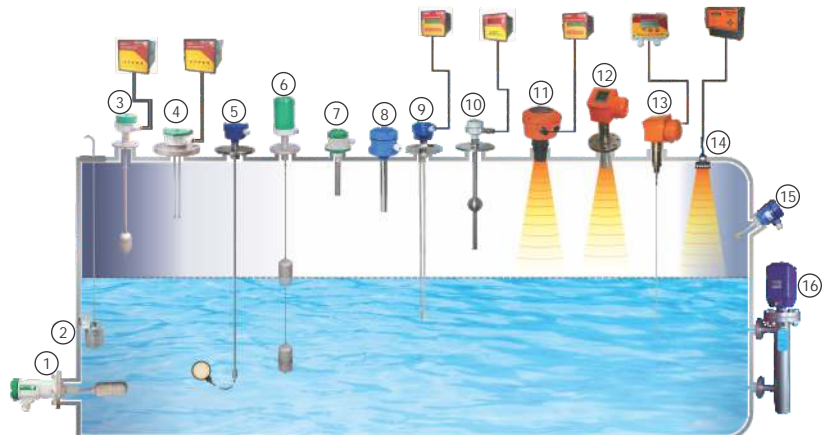
Level Gauges for Liquids

- 1) Float & Board Gauge
- 2) Reflex Gauge
- 3) Transparent Gauge
- 4) Transparent Tubular Gauge
- 5) Weld Pad Gauge
- 6) Magnetic Gauge
- 7) Float & Dial Gauge
- 8) Float & Tape Gauge



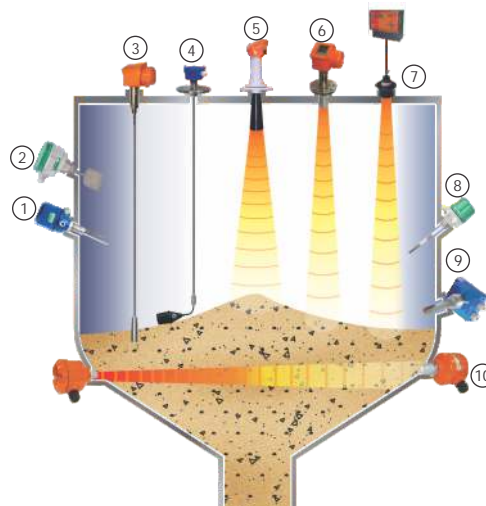
Level Switches & X'mitters For Liquids

- 1) Float Pivoted Switch
- 2) Bilge Switch
- 3) Float Guided Switch X TLCF
- 4) Conductivity Switch X TLCN
- 5) Cable Suspended Switch
- 6) Displacer Switch
- 7) Capacitance Switch
- 8) Air Diaphragm Switch
- 9) Capacitance X'mitter X TUIC
- 10) Float Guided X'mitter X TLIC
- 11) Ultrasonic Microflex X TUIC
- 12) FMCW Radar VG7
- 13) TDR Radar-VF7 X TLPI
- 14) Ultrasonic X'ducer X Miniflex
- 15) Vibrating Fork Switch
- 16) Vertical Level Control



Level Switches & X'mitters For Solids

- 1) Vibrating Fork Switch
- 2) Rotary Paddle Switch
- 3) TDR Radar- VF7
- 4) Tilt Detector For Solids
- 5) Ultrasonic Microflex LR
- 6) FMCW Radar- VG7
- 7) Ultrasonic X'ducer X Reflex LR
- 8) RF Admittance Switch
- 9) Vibrating Diamond Blade
- 10) Microwave Switch



Our Valued Customers

Water & Waste Water Treatment

Thermax Ltd.
GE India Industrial Private Ltd
Ion Exchange (I) Ltd.
VA Tech Wabag Ltd.
Driplex Water Engineering Ltd

Pharmaceutical, Drug & Biotechnology

Lupin Ltd.
Cipla Ltd
Sun Pharmaceutical Industries Ltd.
Emcure Pharmaceuticals Ltd.
Dr. Reddy's Laboratories Ltd.

Mining & Metals Processing

Rashtriya Ispat Nigam Ltd
Jindal Stainless Ltd
Bhushan Steel Ltd
Essar Steel Ltd
Tata Steel Ltd

Dairy, Food & Beverage

Praj Industries Ltd
EID - Parry (India) Ltd
Alfa Laval India Ltd
Mother Dairy Foods Processing Ltd
Parle Products Pvt Ltd

Chemicals & Fertilizers

SRF Ltd.
Gujarat Fluorochemicals Ltd.
Navin Fluorine International Ltd.
Rashtriya Chemicals & Fertilizers Ltd.
Gujarat Narmada Valley Fert. & Chem. Ltd.
National Fertilizers Ltd.

Oil Refining & Petrochemicals

Hindustan Petroleum Corporation Ltd
Bharat Petroleum Corporation Ltd
Indian Oil Corporation Ltd
Mangalore Refinery & Petrochemicals Ltd
Reliance Industries Ltd

Synthetic Fibers & Textiles

Reliance Industries Ltd
Garden Silk Mills Ltd
Indorama Industries Ltd
Century Enka Ltd
Rajashree Polyfil

Engineering

Larsen & Toubro Ltd
Kirloskar Pneumatic Co Ltd
Siemens Ltd
ABB India Ltd
Alstom India Ltd

Steam & Power Generation

Adani Power Ltd
Essar Power Ltd
Jindal Power Ltd
The Tata Power Company Ltd
Power Grid Corporation of India Ltd

Cement

Acc Ltd.
Ultratech Cememt Ltd
J.k. Cement Works.
Wonder Cement Ltd.
Grasim Industries

Automobile

Tata Motors Ltd
Maruti Suzuki India Ltd
General Motors India Pvt Ltd
Mahindra Vehicle Manufacturers Ltd
Mercedes-benz India Pvt Ltd

Plastic, Rubber, Paper & Pulp

Pudumjee Pulp & Paper Mills Ltd
Hindustan Newsprint Ltd
Bilt Graphic Paper Products Ltd
Jk Paper Ltd
The Mysore Paper Mills Ltd

Marine, Shipbuilding & Defence

Mazagon Dock Ltd
Hindustan Shipyard Ltd
ABG Shipyard Ltd
Ordnance Factory
Defence Machinery Design Est. (DMDE)

Registrations / Approvals



Exports

Bahrain	Iraq	Nigeria	Senegal	Thailand
Bangladesh	Kuwait	Oman	Singapore	UAE
Egypt	Malaysia	Philippine	Sri Lanka	USA
Indonesia	Nepal	Qatar	Switzerland	Vietnam
Iran	Netherland	Saudi Arabia	Taiwan	Zambia

Marketing Network

Ahmedabad	Coimbatore	Indore	Mumbai	Sonebhadra
Ahmednagar	Delhi	Jamshedpur	Nagpur	Surat
Ajmer	Goa	Kolhapur	Noida	Thane
Bengaluru	Hardwar	Kolkatta	Odisha	Vadodara
Bokaro	Hospet	Korba	Salem	Visakhapatnam
Chennai	Hyderabad	Mohali	Satna	

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