

# Teltherm

## OVERVIEW OF PRODUCTS WATER INDUSTRY

### PRESSURE

- Pressure gauges (NZ made), transmitters, switches

### TEMPERATURE

- Temperature gauges and sensors (NZ made)

### FLOW

- Flow meters, switches, data loggers

### LEVEL

- Visual level indicators, switches, transmitters

### GAS DETECTION

- Full range of portable and fixed units
- Most units can be serviced and calibrated

### ANALYTICAL

- Unique range of fixed probes mainly for WWTP
- PH, DO, ORP Sensors
- TSS from 10 ppm up to 30%, in-line, 24/7, self-cleaning



## Based in NZ Since 1947

Manufacturing: Pressure & Temperature dial gauges/probes

IANZ accredited: for Pressure, Temperature & Gas detectors

Industrial Instrumentation: Sales & Service



# FLOW

## Turbine Flow Meter



- Used for clean fluids
- Size from DN4 up to DN200
- Flanged, threaded, tri-clamp
- Remote or compact display
- Standard accuracy  $\pm 1\%$

## Magnetic Flow Meter



- Used for conductive fluids
- Size from DN10 up to DN2000
- Flanged, threaded, wafer
- Remote or compact display
- Standard accuracy  $\pm 0.5\%$

## Portable Ultrasonic Flow Meter



- Portable unit for verifications and data logging
- From pipe size DN25 up to DN1500
- Full diagnostics
- Optional thickness gauge/ energy measurement
- Training included



## Fixed Ultrasonic Flow Meter & Doppler\*

- Analogue output (HART optional)
- From pipe size DN10 up to DN6000
- Simple installation
- Dual channel possible
- Energy management optional

*\*(Doppler can be used for extremely dirty fluids)*



# GAS DETECTION

## Fixed gas detectors



- Robust, single gas units
- With or without display
- Any toxic/combustible gas
- Commissioning assistance
- 4-20 mA, relays or modbus output

## Portable gas detectors

- Single gas or multi gas units
- Free training included
- Extremely robust
- We service /calibrate and IANZ certify most gas detectors

**Free technical advice and training**

**Supplier of regulators, gas bottles, filters and spare parts**

**Hire instruments available**



# LEVEL

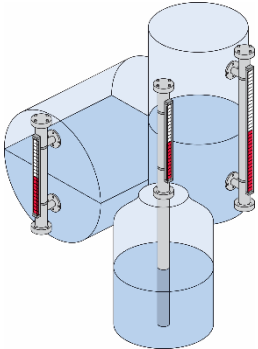
## Robust level switch



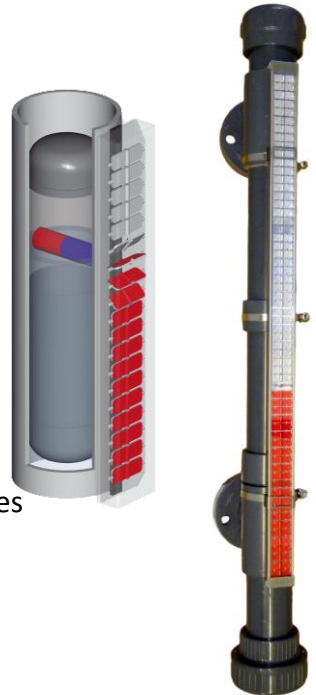
- Principle - float with magnetic contact
- Suitable for most liquids
- Excellent delivery times and local support
- Many options possible, also pneumatic models
- Extremely robust
- Capacitive, inductive, temperature principle also available



## Visual level indicator



- All units made to order in Australia - excellent delivery
- Local support and engineering
- Any liquid/chemical
- Any pressure, temperature and process connection
- Immune to froth, foam & fumes
- No maintenance, once installed forget about it
- Options: measuring scales, switches, isolation & drain valves



## Level float switch → ALL IN ONE!



- Used for pump control, motor and magnetic valves Tangle free
- No lead or mercury
- Extremely robust and highly reliable
- Floats from 76 mm up to 170 mm
- Up to 4 switches in 1 float



## Submersible Level gauges

- Teltherm deals with several Manufacturers
- Accuracies from 1 % to 0.01 %
- Any range, any liquid
- ISO:17025 calibration by arrangement
- Fast delivery times
- Outputs : analogue or digital





# ANALYTICAL



## How do YOU measure Total Suspended Solids?

Technology used: NIR (near IR), transmission of light

### Advantages over Turbidity sensors

#### NIR transmission of light

- Measures mg/l or ppm
- Affected only by known **particle size**
- No compensation for colour
- Can be zero calibrated in clean water

#### Turbidity

- Measures NTU
- Affected by physical characteristics of particles
- Requires compensation for colour
- Can't zero in clean water

#### CTX 20/25 LC inline unit

- Range 0-10 mg/l or 0-200 mg/l
- **Automated** self-cleaning
- Single lab sample calibration
- Zeroing with clean water
- Accuracy = 0.1 mg/l



#### ITX/IL inline unit

- Range 0- 50,000 mg/l (5%TSS)
- **Automated** self-cleaning
- Single lab sample calibration
- Zeroing with clean water
- "Hot tap" removal



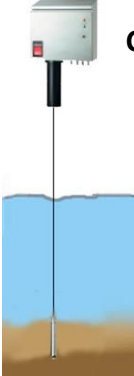
#### ITX fixed unit

- Range 0- 30,000 mg/l (3%TSS)
- **Automated** self-cleaning
- Single lab sample calibration
- Zeroing with clean water
- Large diam. body reduces tangles
- Submersible



#### CMC inline unit

- Microwave sensing Technology
- Repeatability = 0.01%TSS
- Single lab sample calibration
- Range **0-16% TSS or 0-30% TSS**
- No moving parts
- Insertion or inline DN50..300



#### CBX automatic sludge profile sensor

- Range 0-1% TSS or 0-2(5) %TSS
- 4-20 mA output for fluff & sludge level
- **Automated** self-cleaning sensor & cable
- Optional 2 x 4-20 mA output for profile
- Switch input for rake avoidance
- Accurate depth measurement

#### MultiTracker portable unit

- Sensors currently include:
  - Sludge profile (Blanko)
  - TSS (Solido)
  - DO (Oxy Duo)
- Backlit LCD display, datalogging
- Pushbutton adjustable set points, on-site!



**NOTE: Also available fixed units for PH, DO, ORP, REDOX**

# For more information

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