

EMC are the Sole NZ Representative for Endress+Hauser, one of the top suppliers of process instrumentation and automation solutions worldwide.

### Flowmeters

E+H's ProLine Flowmeters for liquids, steam and gases are suitable for many industries and applications, including:

Water / Wastewater / Food  
Sanitary / Process / Chemical

The ProLine concept provides standard features, outputs, operation and diagnostics with a variety of optional choices:

#### Promag - Electromagnetic

Promag accurately measures the flow of conductive liquids, from slurries to acids, with easy operation & wide dynamic range.

Sizes from 2mm to 2m with a variety of linings, connections, electrodes and housings.

#### Promass - Coriolis Mass Flow

Direct measurement of mass, density and temperature (liquids / gases), with sizes to 250mm. Also for in-line measurement of viscosity in liquids.

#### Prosonic - Ultrasonic

For measurement of liquids in large pipes up to 4m dia. Ideal for harsh or hygienic applications with non-intrusive mounting.

#### Prowirl - Vortex

For steam, hydrocarbon liquids & gases, demineralised water, low-viscosity liquids, and many other gases or liquids.

#### T-Mass - Thermal

For the mass flowrate and process density of many gases (to 12t/hr).



Endress+Hauser Flowmeters.  
Promag, Promass, Prowirl & Prosonic

### Level Measurement

E+H are a world leader in level measurement, with a range that encompasses many techniques and principles.



Time-of-Flight Level Measurement with  
Microwave Radar and Prosonic Ultrasonic

#### Time-of-Flight

##### ● Radar

Microwave radar is the safe solution for liquids in extreme process conditions, or for aggressive media where vapours and gas layers are present.

##### ● Guided Microwave Radar

Suitable for solids / liquids and unaffected by moisture, density, grain size, angled surfaces, bin/silo materials, geometry, filling noise, dust or foam.

##### ● Ultrasonic

Ultrasonic applications and features include measurement in open channels, screen control, silos, vessel linearisation, fixed target suppression, etc.

#### Capacitive

Universal applications in liquids / bulk solids, switching or continuous measurement. Suitable for extreme process conditions.

#### Hydrostatic Pressure

Used for virtually any liquid and operates independent of the product's properties or foam. Ideal for media that are viscous, aggressive or cause build-up.

#### Radiometric (Gamma)

Radiometric (Gamma) is used for level, interface and density measurement of liquids and bulk solids through the vessel wall, in extreme process conditions.

#### Switches

E+H Level Switches include the widest variety of techniques available:

Capacitive, Conductive, Microwave, Paddle, Ultrasonic, Vibrating and Gamma.

### Liquid Analysis

E+H's water analysis expertise is illustrated below by the diverse range of measurement systems available:

#### Transmitters for all applications

E+H Liquisys M transmitters meet the high demands of electrode monitoring, ease of operation and comms (HART, PROFIBUS), as well as processing and display of values.

#### pH, Redox

E+H's leadership in pH measurement is illustrated by the fact they produce in excess of 250,000 pH electrodes per year.

The new digital MemoSens (pictured right) and glass-free ISFET pH sensors ensure that the advantages of the very latest technology are yours together with a wide range of accessories.

#### Conductivity

E+H manufacture measurement systems for all conductivity and concentration applications in water, acids or alkalis: from low-cost to high-tech.

#### Turbidity / Suspended Solids

For measuring ultra-low turbidity of drinking water, wastewater / effluent, and suspended solids content of thickened sludge.

#### Dissolved Oxygen

Oxygen sensors contribute to process, plant and environment protection with high stability, monitoring and diagnosis.

#### Chlorine / Chlorine Dioxide

E+H cells measure free chlorine directly and, with a suitable pH electrode, provide a pH and temperature compensated reading.

#### In-situ BOD and Nitrate

E+H's use UV & IR light to measure either organic content (SAC, BOD, COD, TOC) or nitrate content, directly in the process.

### More information?

Circle Enquiry No:

Flow: 406

Level: 407

Analysis: 408

Contact: Howard Berry or Chris Gailer

E+H can offer much more, including Pressure, Temperature, Recording, System Components, etc.

For a Free CD Catalogue Circle: 409

