

# Endress+Hauser Australia

## Product and project capabilities





## Endress+Hauser Australia product and project capabilities

Endress+Hauser Australia was established in 2001, taking over the distributor agreement held by Alstom and set up as a direct sales and service office. The Australian operation has experienced consistent growth in Australia and has built a solid reputation based on product quality and service.

The head office is located in Macquarie Park, Level 1, 16 Giffnock Avenue, Sydney, New South Wales. Branch offices are located in Brisbane, Melbourne, South Australia and Perth as well as a network of representatives across the country. All offices offer full technical sales support, project management and engineering support, as well as service technicians for field assistance and commissioning.

### Industry focus

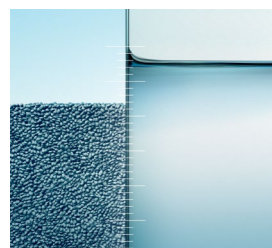
Our extensive product offering in process measurement has led us to become a major supplier to industries such as:

- Mining and primaries
- Water and wastewater
- Oil & gas
- Food & beverage
- Chemical
- Pharmaceuticals



**Flow measurement for liquids, gases and steam**  
Water, natural gas, steam, mineral oil and chemicals are some of the fluids that have to be measured day in, day out. Select the flow meter best suited to your process needs.

[More information >>>](#)



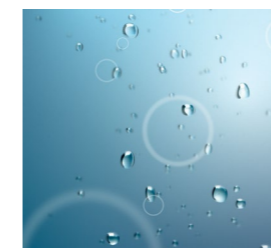
**Level measurement**  
Continuous level measurement and point level detection in liquids and bulk solids.

[More information >>>](#)



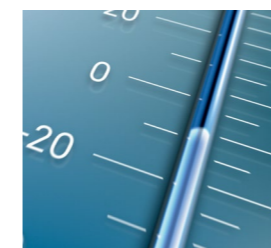
**Pressure measurement**  
Powerful instruments for process pressure, differential pressure, level and flow.

[More information >>>](#)



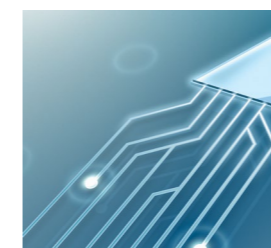
**Liquid analysis in all applications**  
Water, beverages, dairy products, chemicals or pharmaceuticals have to be analysed every day. Choose the device best suited to your process needs from our comprehensive product portfolio.

[More information >>>](#)



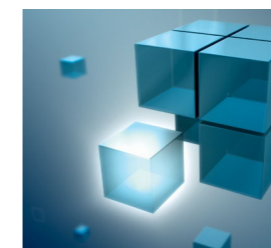
**Temperature measurement**  
Temperature probes and transmitters for the process industry.

[More information >>>](#)



**Software solutions**  
Apart from all relevant measuring and system technologies, we also offer appropriate software for all branches of industry to run your operating processes at their full potential.

[More information >>>](#)



**System components and data managers**  
Power supplies, displays, overvoltage protection and data managers.

[More information >>>](#)



**Services**  
Support, to service and to optimise your process. We offer a variety of services to complement the capabilities of your staff throughout your plant lifecycle.

[More information >>>](#)



## Endress+Hauser Australia project management services

- Project management in accordance to E+H standard 201, ensuring consistent execution both nationally and globally
- Dedicated Project Coordinator
- Dedicated Project Manager
- Specific project plan covering all deliverables
- Fortnightly progress report
- Expediting support
- Coordination and management of project specific packaging and shipping requirements
- Project kick off meeting with all relevant stakeholders
- Factory acceptance test (FAT) / site acceptance test (SAT) and commissioning services
- Certified project handover
- Backup of relevant project data (with optional online access)

## Endress+Hauser project engineering services

- Embedded engineering
- Project engineering
- Instrumentation sizing calculations using E+H applicator sizing software
- Generation and population of data sheets using E+H specification sheet producer
- Creation and population of project documentation database
- Electrical hook-up drawings
- Customer specific inspection and test plans
- Solutions
  - > Inventory management solutions
  - > Fluid management solutions
  - > Energy management solutions
  - > Analytical solutions
  - > Field network engineering
  - > Plant asset management



## Key advantages Endress+Hauser Australia offers as a main instrument vendor

### Endress+Hauser Group

- Family owned world leader in instrumentation
- Founded in 1953 by Georg H Endress and Ludwig Hauser
- Most complete process measurement selection with flow, level, pressure, temperature, liquid analysis, gas analysis, systems, gauging, and service

### Endress+Hauser Australia

- Representation in every state in Australia
- Management of procurement from multiple suppliers as main instrument vendor (MIV)
- Direct supply and communication to and from E+H manufacturing facilities
- Management of non-standard technical products (TSP's)

### Endress+Hauser project tools

- W@M Toolset- project database tool, integrating plant area, tags, selection, part numbers, spare parts and pricing
- Sizing software
- Electronic pricing and open price book agreements with project partners
- Electronic selection software for correct measuring principle and instrument selection
- Electronic model number recognition
- Project engineering and project management
- Fieldbus/Profibus design, engineering and integration

### A complete measurement solution supplier

- Procurement simplification
- Interoperability across the range of instruments simplifies maintenance
- Universal programming structure, whether the instrument is for flow, level, density or pressure etc.
- Three tier approach to product range – entry level, medium functionality, or high specification ensuring right technology for applications at the most cost effective price- all built to industrial standards

The following are a selection of projects won and successfully executed since the inception of Endress+Hauser Australia. Further details and references are available on request.



### Alcan Gove

**Location:** Gove, NT  
**Consultant/constructor:** Alcan Engineering  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$500K AUD  
**Features:** Foundation Fieldbus





#### ALMC (Australian Lubricant Manufacture Company)

**Location:** Brisbane, QLD  
**Consultant/constructor:** Connell Wagner  
**Scope of supply:** Main instrument vendor  
**Instrument supply value:** \$500K AUD  
**Features:** Profibus PA network for instruments, implementation of Fieldgates and Fieldcare asset management over Profibus



#### Ban Phuc Nickel (Vietnam)

**Location:** Vietnam  
**Consultant/constructor:** Ban Phuc Nickel  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$130K AUD  
**Features:** Flow, density, level, pressure, liquid analysis



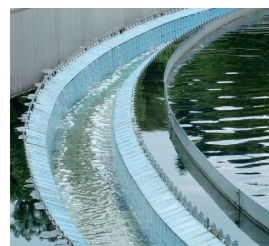
#### BM Alliance Coal Operations

**Location:** Bowen Basin, QLD  
**Consultant/constructor:** BHP Billiton Mitsubishi Alliance  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$350K AUD  
**Features:** Pressure, density, level, temperature



#### Bondi STP revamp

**Location:** Sydney, NSW  
**Consultant/constructor:** Sydney Water Corporation  
**Scope of supply:** Main instrument vendor – total instrument package  
**Instrument supply value:** \$150K AUD  
**Features:** Foundation Fieldbus network for instruments



#### Brisbane City Council STP Upgrades

**Location:** 3 sites - Oxley, Sandgate, and Wynnum. QLD  
**Consultant/constructor:** BWEA Alliance  
**Scope of supply:** Major instrument vendor – Flow, level, analysis, pressure  
**Instrument supply value:** \$600K AUD  
**Features:** Profibus PA network for instruments, implementation of Fieldgates and Fieldcare asset management over Profibus



#### Buzwagi Gold Mine (Barrick Gold)

**Location:** Tanzania  
**Consultant/constructor:** Lycopodium  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$2M AUD  
**Features:** Flow, level, pressure, temperature, liquid analysis, density



#### Castlemaine Perkins XXXX Brewery

**Location:** Brisbane, QLD  
**Consultant/constructor:** Briggs Automation  
**Scope of supply:** Main instrument vendor – Total instrument package  
**Instrument supply value:** \$400K AUD  
**Features:** Profibus PA network for instruments, implementation of Fieldgates and Fieldcare asset management over Profibus



#### Degrussa Copper Mine

**Location:** Meekatharra, WA  
**Consultant/constructor:** Sandfire Group/Forge  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$500K AUD  
**Features:** Flow, density, level, pressure, field network support



#### FMG - Cloudbreak

**Location:** Pilbara, WA  
**Consultant/constructor:** FMG  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$1.2M AUD  
**Features:** Flow, level, pressure, analysis



#### Victorian Desalination Plant

**Location:** Dalyston, VIC  
**Consultant/constructor:** TDJV (Thiess Degremont Joint Venture)  
**Scope of supply:** Major instrument vendor – Flow, Level, Pressure, Temperature  
**Instrument supply value:** \$4.2M AUD  
**Features:** Network engineering



#### Gold Coast Desalination Plant

**Location:** Tugan – Gold Coast, QLD  
**Consultant/constructor:** John Holland, Veolia, SKM  
**Scope of supply:** Major instrument vendor – Flow, level, pressure  
**Instrument supply value:** \$1M AUD



#### Goro Nickel (Vale Inco)

**Location:** New Caledonia  
**Consultant/constructor:** Vale Inco  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$500K AUD  
**Features:** Density, level measurement & HPAL autoclave level measurement with Vapour density compensation



#### Gove (Rio Tinto Alcan)

**Location:** Gove, NT  
**Consultant/constructor:** Rio Tinto  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$600K AUD  
**Features:** Level, density & liquid analysis



#### Illawarra STP Upgrade

**Location:** Wollongong, NSW  
**Consultant/constructor:** Veolia Water Solutions  
**Scope of supply:** Main instrument vendor – total instrument package  
**Instrument supply value:** \$1M AUD  
**Features:** Engineering services



#### Kansanshi Copper Project (Zambia)

**Location:** Zambia  
**Consultant/constructor:** Kansanshi Mining PLC  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$1.6M AUD  
**Features:** Level, pressure, flow, temperature, liquid analysis



#### Kinsevere (Anvil Mining)

**Location:** Katanga province, DRC  
**Consultant/constructor:** Ausenco  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$250K AUD  
**Features:** Flow, level, pressure, temperature, liquid analysis



#### Kwale Mineral Sands (Kenya)

**Location:** Kenya  
**Consultant/constructor:** Ausenco / Base Titanium Ltd  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$250K AUD  
**Features:** Level, pressure, temperature, flow indication



#### Kwinana STP Augmentation

**Location:** Perth, WA  
**Consultant/constructor:** Watercorp, Veolia Water Solutions  
**Scope of supply:** Main instrument vendor – Total instrument package  
**Instrument supply value:** \$600K AUD  
**Features:** Profibus PA network for instruments



#### Lihir MOPU (Newcrest)

**Location:** PNG  
**Consultant/constructor:** Newcrest  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$200K AUD  
**Features:** Level & density measurement & Vapour density compensation of autoclave level



#### Liddell Coal (Xstrata / Mitsui)

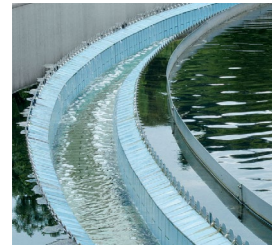
**Location:** Ravensworth, NSW  
**Consultant/constructor:** Xstrata  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$200K AUD  
**Features:** Flow, level, pressure, density, temperature, liquid analysis





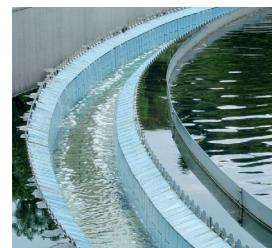
**Mangoola Coal (Xstrata)**

**Location:** Wybong, NSW  
**Consultant/constructor:** Downer EDI  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$300K AUD  
**Features:** Flow, level, pressure, density, temperature, liquid analysis



**Maroochy STP Augmentation**

**Location:** Maroochy, QLD  
**Consultant/constructor:** CHBM (CH2Mill & Barclay Mowley)  
**Scope of supply:** Main instrument vendor – 95 % instrument package  
**Instrument supply value:** \$250K AUD  
**Features:** Fieldcare asset management package



**Merrimac STP Upgrade**

**Location:** Gold Coast, QLD  
**Consultant/constructor:** John Holland  
**Scope of supply:** Main instrument vendor  
**Instrument supply value:** \$250K AUD  
**Features:** HART instrumentation



**Narrabri Coal Mine (Whitehaven Coal)**

**Location:** Narrabri, NSW  
**Consultant/constructor:** Sedgman  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$500K AUD  
**Features:** Flow, level, pressure, temperature, level & density



**Northern Interconnector Water Pipeline**

**Location:** Brisbane-Gold Coast, QLD  
**Consultant/constructor:** Northern Network Alliance  
**Scope of supply:** Instrument vendor – Flow  
**Instrument supply value:** \$350K AUD



**Nui Phao Mining (Vietnam)**

**Location:** Vietnam  
**Consultant/constructor:** Jacobs Engineering  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$1M AUD  
**Features:** Pressure, level, density, temperature, liquid analysis, 3rd party



**Mt Keith Nickel (BHP Billiton Nickel West)**

**Location:** Wiluna, WA  
**Consultant/constructor:** Lycopodium  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$200K AUD  
**Features:** Flow, level, pressure, temperature, liquid analysis



**Ravensthorpe Nickel (First Quantum Minerals)**

**Location:** Ravensthorpe, WA  
**Consultant/constructor:** Lycopodium  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$550K AUD  
**Features:** Level, flow, pressure, density, liquid analysis & Vapour density compensation of autoclave level



**Olympic Dam**

**Location:** Roxby Downs, SA  
**Consultant/constructor:** Aker Solutions  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$400K AUD  
**Features:** Density measurement and gamma modulator for uranium slurries



**Queensland Nickel Yabulu Extension Project**

**Location:** Townsville, QLD  
**Consultant/constructor:** Hatch Associates  
**Scope of supply:** Main instrument vendor  
**Instrument supply value:** \$2.2M AUD  
**Features:** Complete HART process solution, supply of non-E+H instrumentation





**Southern Regional Water Pipeline**

**Location:** Brisbane-Gold Coast, QLD  
**Consultant/constructor:** SRWP Alliance  
**Scope of supply:** Instrument vendor – Flow, pressure  
**Instrument supply value:** \$400K AUD



**Snapper Mineral Sands (Bemax Resources)**

**Location:** Murray Basin, NSW  
**Consultant/constructor:** Ausenco  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$300K AUD  
**Features:** Flow, level, pressure, density, temperature, liquid analysis



**Sydney Water West Camden STP**

**Location:** Sydney, NSW  
**Consultant/constructor:** CHBM (CH2MHill and Barclay Mowlem)  
**Scope of supply:** Main instrument vendor – total instrument package  
**Instrument supply value:** \$350K AUD  
**Features:** Total supply including 3rd party instruments



**Sydney Water Shellharbour STP**

**Location:** Shellharbour, NSW  
**Consultant/constructor:** United Infrastructure Group  
**Scope of supply:** Major instrument vendor  
**Instrument supply value:** \$150K AUD  
**Features:** Profibus PA network for instruments



**Sukari Gold Mine (Centamin Egypt)**

**Location:** Egypt  
**Consultant/constructor:** Centamin Egypt  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$400K AUD  
**Features:** Flow, level, pressure, temperature, liquid analysis



**Tasiast (Red Back Mining)**

**Location:** Mauritania  
**Consultant/constructor:** Lycopodium  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$250K AUD  
**Features:** Flow, level, pressure, temperature, liquid analysis



**Tenke Fungurume Copper Cobalt Mine (Freeport / Lundin JV)**

**Location:** Katanga province, DRC  
**Consultant/constructor:** Lycopodium  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$2M AUD  
**Features:** Flow, level, pressure, temperature, liquid analysis, density



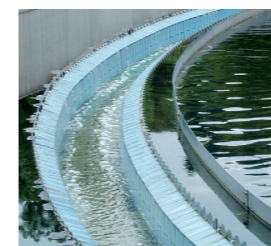
**Tropicana Gold Mine**

**Location:** Kalgoorlie, WA  
**Consultant/constructor:** Lycopodium  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$1M AUD  
**Features:** Flow, level, pressure, density, temperature, liquid analysis & service



**Western Corridor recycle water project**

**Location:** Bundamba 1A –Advanced Water Treatment Plant AWTP, QLD  
**Consultant/constructor:** Black + Veatch / Thiess JV  
**Scope of supply:** Major instrument vendor – Flow, level, analysis, pressure  
**Instrument supply value:** \$600K AUD



**Western Corridor recycle water project**

**Location:** Bundamba 1B –Advanced Water Treatment Plant AWTP, QLD  
**Consultant/constructor:** Black + Veatch / Thiess JV  
**Scope of supply:** Major instrument vendor – Flow, level, analysis, pressure  
**Instrument supply value:** \$500K AUD



**Western Corridor recycle water project**

**Location:** Eastern Pipeline alliance, QLD  
**Consultant/constructor:** MacDow  
**Scope of supply:** Major instrument vendor – Flow, level, analysis, pressure  
**Instrument supply value:** \$800K AUD



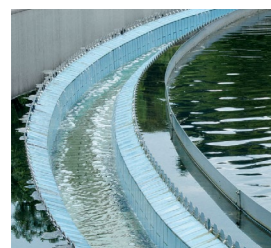
**Western Corridor recycle water project**

**Location:** Gibson Island – Advanced Water Treatment Plant AWTP, QLD  
**Consultant/constructor:** UGI –MWH  
**Scope of supply:** Major instrument vendor – Flow, level, analysis, pressure  
**Instrument supply value:** \$500K AUD



**Western Corridor recycle water project**

**Location:** Luggage Point , QLD  
**Consultant/constructor:** Downer  
**Scope of supply:** Major instrument vendor – Flow, level, analysis, pressure  
**Instrument supply value:** \$600K AUD



**Wauchope STP Hastings Council**

**Location:** Port Macquarie, NSW  
**Consultant/constructor:** Direct client  
**Scope of supply:** Main instrument vendor – total instrument package  
**Instrument supply value:** \$150K AUD  
**Features:** Won as a result of a trail of analytical instruments against other suppliers



**Yarwun Alumina Refinery (Rio Tinto Alcan)**

**Location:** Gladstone, QLD  
**Consultant/constructor:** Bechtel  
**Scope of supply:** Instrumentation  
**Instrument supply value:** \$1M AUD  
**Features:** Specialised level measurement



Quality control and quality product means reliability



- ISO 9001:2008 Quality standards
- ISO AS/NZS 4801:2001 Health & safety
- ISO 14001:2004 Environmental
- SIL 2 (Safety Integrity Level) Ratings on key products

**Technical advantages**

- Single software interface for remote commissioning and single hardware interface for local display and commissioning
- The right technology, not complex technology - the instruments are best fit for the required purpose
- Innovative industry leading technology

**Some examples:**

- pH – Memosens technology is the world’s first digital and inductively connected pH probe. No more connector problems, the probe stores the calibration data
- Radar level measurement with multi-echo tracking, ensuring highest reliability even in the presence of obstructions
- Gamma - unique detector design uses lower activity sources and gives the highest stability
- Ultrasonic level - ongoing development resulting in superior signal evaluation. Totally sealed transducer
- Electromagnetic flow meter with on-board Heartbeat technology provides the most comprehensive range of built-in diagnostics along the entire signal chain, offering unparalleled self-monitoring capability, traceable factory calibration and self verification
- Pressure and level measurement – Ceramic membrane based pressure transmitters for use in demanding applications with corrosive or abrasive media
- Electronic differential pressure transmitters eliminating traditional mechanical, vibration and temperature variation issues associated with capillaries. This results in increased measurement accuracy, process availability and reliability
- Ultrasonic gas flow measurement offering in-situ methane content measurement
- Liquid analysis using digital multiparameter transmitter for up to 8 sensors. Modular design provides simplicity in commissioning, maintenance and operation





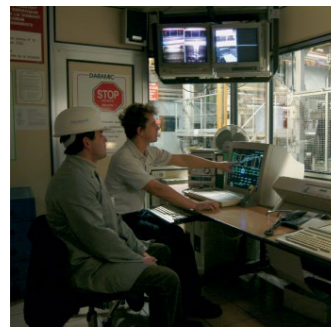
## Reducing complexity - Managing diversity

Endress+Hauser is a privately owned Swiss-German company founded in 1953. The company has become synonymous with quality and innovation, beginning with the invention of the vibrating fork level switch. Endress+Hauser developed the world's first straight and single tube coriolis mass flow meter. The first company to use ceramic cells for pressure measurement. As well as the first to implement digital communications between a pH probe and the transmitter. These are just some of the innovations which stem from the 6.6% of annual turnover invested in research and development.

### **Endress+Hauser flow meter factories and calibration centres in Switzerland, Germany, France, India and the USA**

Endress+Hauser is a world leader in the field of process measurement with complete technologies for flow, level, pressure, liquid analysis, gas analysis, temperature and systems for data acquisition. We have solutions for Foundation Fieldbus, Profibus and HART with test laboratories for integration of devices into a variety of control platforms. We support our customers with engineering, software, and field tools for verification and commissioning of systems and transmitters.

## Project commissioning services



### **Standard Commissioning**

- Visual inspection of installation
- Configuration
- Output value check
- On site instruction



### **Extended commissioning**

- Visual inspection of installation
- Configuration
- Output value check
- On site instruction
- Application check
- Function test



### **Advanced commissioning**

- Visual inspection of installation
- Configuration
- Output value check
- On site instruction
- Application check
- Function test
- Loop check



#### **Head Office**

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