



## AquaPro Multi-Input Intelligent Transmitter

Accurate, user-friendly process monitoring



The AquaPro Multi-Input Intelligent Transmitter monitors up to four (4) inputs or parameters in one simplified interface.

### Markets & Applications

- Power Generation
- Pulp and Paper
- Drinking Water
- Wastewater
- Industrial Water

Streamline your operation with the Thermo Scientific™ AquaPro™ Multi-Input Intelligent Transmitter. Featuring the ability to simultaneously display up to four (4) inputs or parameters, the AquaPro provides accurate, user-friendly monitoring of in-line process applications via a compact, simplified interface. From large industrial operations, to small municipal plants, the AquaPro offers the flexibility and versatility required to meet a variety of measurement needs.

### Functional design

Obtain a comprehensive overview of your processes by way of a detailed picture on a single display. With the AquaPro you can reduce the time, labor and capital equipment costs associated with having multiple transmitters (installation, operation, maintenance, upgrades, etc.). Engineered to be straight-forward and intuitive, the monitor and user-interface help make your job easier. Containing a large 4.3 inch (109.22 mm) backlit color display, the AquaPro provides crystal-clear visibility in various lighting conditions. Color-coded alerts help communicate errors and warning signals, while operational menus remain simple and direct.

# AquaPro Multi-Input Intelligent Transmitter

## Unmatched versatility

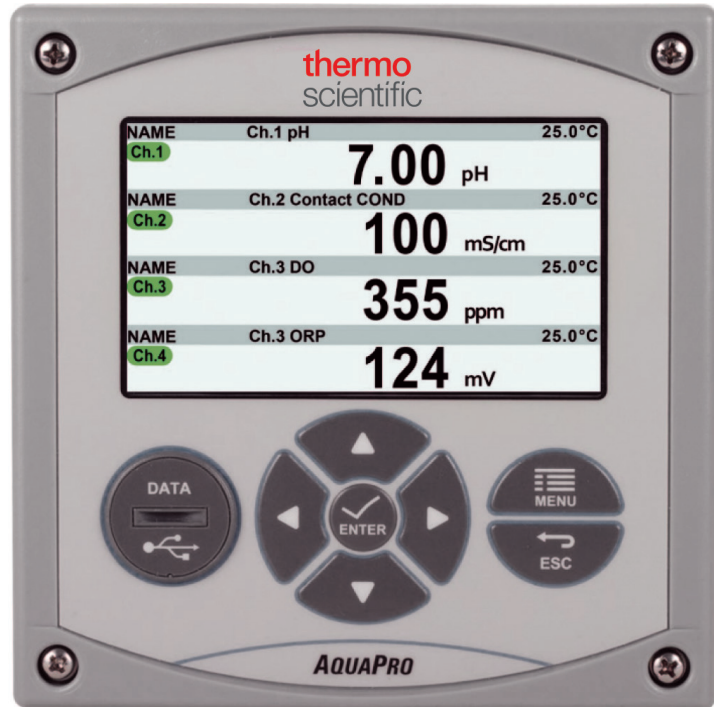
Whether in the field, industrial plant, or on the manufacturing floor, the AquaPro keeps you primed and prepped to handle a variety of situations. Operators have the ability to monitor a broad range of parameters for diverse applications. Equipped with one (1) sensor card as standard, users can track up to four (4) sensors (analog or digital) by simply adding additional plug-and-play cards. Monitor pH/ORP, conductivity, dissolved oxygen, dissolved ozone, turbidity and suspended solids- the AquaPro is up for the challenge.

## Purpose built

Designed to tackle the realities and utility of industrial operations, the AquaPro is built to last. Containing a UV-resistant polycarbonate case, as well as NEMA 4X and IP66 waterproof ratings, you can trust that the AquaPro will remain operable in a variety of harsh industrial environments. Adaptable mounting options also provide the ability to configure the transmitter to your needs- the AquaPro is easily pipe, panel or wall-mounted.

## Clear communication

Supporting most major communication protocols, the AquaPro can be used with a wide range of data systems for different applications- including information transfer to PLC, DCS, SCADA and other PC-based control systems and 0/4-20mA, MODBUS™ RTU, Ethernet/IP and Modbus TCP. Using the USB data port, data can be easily downloaded and new firmware quickly installed. This means new features and capabilities without stopping to change hardware. And in instances where additional transmitters are required, the configuration of an existing AquaPro can be easily saved and copied to a newly installed AquaPro using a removable USB drive.



## Product specifications

### Measurement capabilities

Sensor Input	One (1) to four (4) independent interchangeable input cards. Digital and analog sensors available.
Supported Parameters	Digital Sensor: pH, ORP, Contacting Conductivity, Toroidal Conductivity, Dissolved Oxygen, Ozone, Turbidity, Suspended Solids Analog Sensor: pH, ORP, Contacting Conductivity, Toroidal Conductivity, Dissolved Oxygen, Ozone
Calculated Measurements	Math functions using two like parameters (pH and conductivity)

### User interface

Display	109.22 mm (4.3 in), high-contrast color graphical display
Keypad	Tactile keypad with 7-key menu navigation
Languages	English, Spanish, German, French, Italian, Portuguese, Chinese

### Data

Data Log	Stores approximately 20,000 sets of readings
Data Port	Front-panel accessible USB-A for firmware updates and datalog downloads

### Communication and control

Analog Output	Two (2) isolated 0/4-20mA per channel (non-reversible), 0.01mA resolution, linear/log/PID capability
Relay	Three (3) form C relays, 5A @ 250VAC (optional additional three (3) form C relays, 5A, 250VAC requires input card slot)
Digital Communication	Optional MODBUS RTU or Ethernet/IP (requires input card slot)

### Operating parameters

Temperature	-20°C - 60°C (-4°F - 140°F)
Humidity	5% - 95% relative humidity, non-condensing
Operating Environment	Approved for indoor and outdoor use

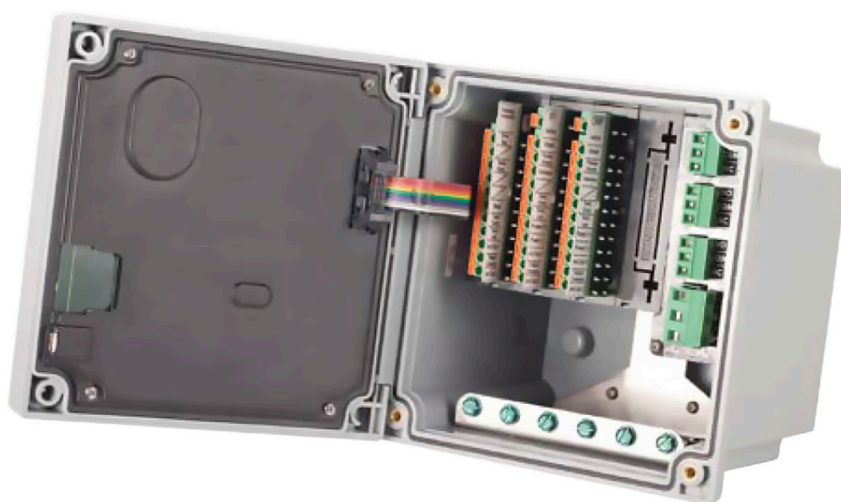
Enclosure Protection Class	NEMA 4X (weather resistant, corrosion resistant, dustproof, water resistant from high pressure jets) IP66 (dustproof and water resistant from high pressure jets)
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### Installation specifications

Mounting Options	Wall, panel or pipe
Instrument Weight	1.3 kg (3 lbs)
Enclosure Dimensions (W x H x D)	144 mm x 144 mm x 128mm (5.67 in x 5.67 in x 5.01 in)
DIN Size	1/2 DIN; 138 mm x 138 mm (5.40 in x 5.40 in)
Power Requirements	100 to 240 VAC, 9.6 W, 50/60Hz 24 VDC, 0.4A max

### Regulatory

CE	Low Voltage Directive, EMC Directive, RoHS Directive
UL	cULus
HazLoc	Class 1 Div 2, Groups A, B, C, D (in combination with approved sensors)



**Ordering information**
**AquaPro parameter cards**

Description	Catalog number
AquaPro pH Card	AP01PH
AquaPro ORP Card	AP02ORP
AquaPro Contacting Conductivity Card	AP03CC
AquaPro Toroidal Conductivity Card	AP04TR
AquaPro Dissolved Oxygen Card	AP05DO
AquaPro Ozone Card	AP06OZ
AquaPro RDO Pro-X (Optical) Dissolved Oxygen Card	AP07RDO
AquaPro DataStick-Digital Input Card	AP08DS
AquaPro Ultra Pure pH Card	AP09UPPH
AquaPro MODBUS RTU Communications Card	AP0BMBRTU
AquaPro Ethernet Communications Card	AP0CETH
AquaPro Relay Expansion Card	AP0GREXC

**AquaPro accessories**

Description	Catalog number
AquaPro Panel Mount Kit	AP0PANKT
AquaPro Pipe Mount Kit	AP0PIPKT

**AquaPro controller cards**

Description	Catalog number
Aquapro Transmitter with 1 pH Card, 24 VDC	AP1XXXJ
Aquapro Transmitter with 1 pH Card, 90-240 VAC	AP1XXXK
Aquapro Transmitter with 1 ORP Card, 24 VDC	AP2XXXJ
Aquapro Transmitter with 1 ORP Card, 90-240 VAC	AP2XXXK
Aquapro Transmitter with 1 Conductivity Card, 24 VDC	AP3XXXJ
Aquapro Transmitter with 1 Conductivity Card, 90-240 VAC	AP3XXXK
Aquapro Transmitter with 1 Torodial Conductivity Card, 24 VDC	AP4XXXJ
Aquapro Transmitter with 1 Torodial Conductivity Card, 90-240 VAC	AP4XXXK
Aquapro Transmitter with 1 Dissolved Oxygen (ppm) Card, 24 VDC	AP5XXXJ
Aquapro Transmitter with 1 Dissolved Oxygen (ppm) Card, 90-240 VAC	AP5XXXK
Aquapro Transmitter with 1 Ozone Card, 24 VDC	AP6XXXJ
Aquapro Transmitter with 1 Ozone Card, 90-240 VAC	AP6XXXK
Aquapro Transmitter with 1 RDO Pro-X Dissolved Oxygen Card, 24 VDC	AP7XXXJ
Aquapro Transmitter with 1 RDO Pro-X Dissolved Oxygen Card, 90-240 VAC	AP7XXXK
Aquapro Transmitter with 1 Datastick Card, 24 VDC	AP8XXXJ
Aquapro Transmitter with 1 Datastick Card, 90-240 VAC	AP8XXXK
Aquapro Transmitter with 1 Ultra Pure pH Card, 24 VDC	AP9XXXJ
Aquapro Transmitter with 1 Ultra Pure pH Card, 90-240 VAC	AP9XXXK

 Learn more at [thermofisher.com/aquapro](https://thermofisher.com/aquapro)

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