

ProCon® — U900 Series

Universal Analytical Controller Analyzer



pH • ORP • Conductivity • TDS • Resistivity • Salinity
Dissolved Oxygen • Level • Turbidity • Free Chlorine
NO₃ • Temperature • Chemical Oxygen Demand



- ✓ **Four (4) Discrete Channel Inputs**
- ✓ **7" Color Touch Screen**
- ✓ **Intelligent menu operation**
- ✓ **Data recording / curve display / data upload function**
- ✓ **Multiple automatic SimplCal® calibration**
- ✓ **Manual and automatic temperature compensation**
- ✓ **Three relay control switches**
- ✓ **High & low alarm**
- ✓ **4-20mA & RS485 outputs**
- ✓ **Multi-parameter display simultaneously shows readings from five discrete inputs**
- ✓ **Password protection**

The Ultimate High Performance Universal Industrial Analytical Controller Analyzer

The ProCon® U900 series is an extremely robust multi-functional industrial controller analyzer.

The modular design is both easy to install and operate providing first measurement values in under one minute.

The U900 is packed with all the extra features included. No need to pay extra for relay, 4-20mA or RS485 outputs.

The SimplCal® feature makes calibrating your sensor easier and quicker than ever before.

This controller offers brilliant display quality and high power visualization. The touchscreen is both easy to navigate as well as being user friendly.

The price-performance ratio of being able to monitor five distinct sensors at the same time makes it an excellent investment.

The U950 can be integrated into higher-level networks, and that can also meet the ever-increasing demands for transparency and data provision.

Enclosure

The U900 is packaged in a rugged **NEMA 4X** polycarbonate enclosure making it ideally suited for heavy-duty applications (including outdoor). A mounting kit is included for wall mounting.



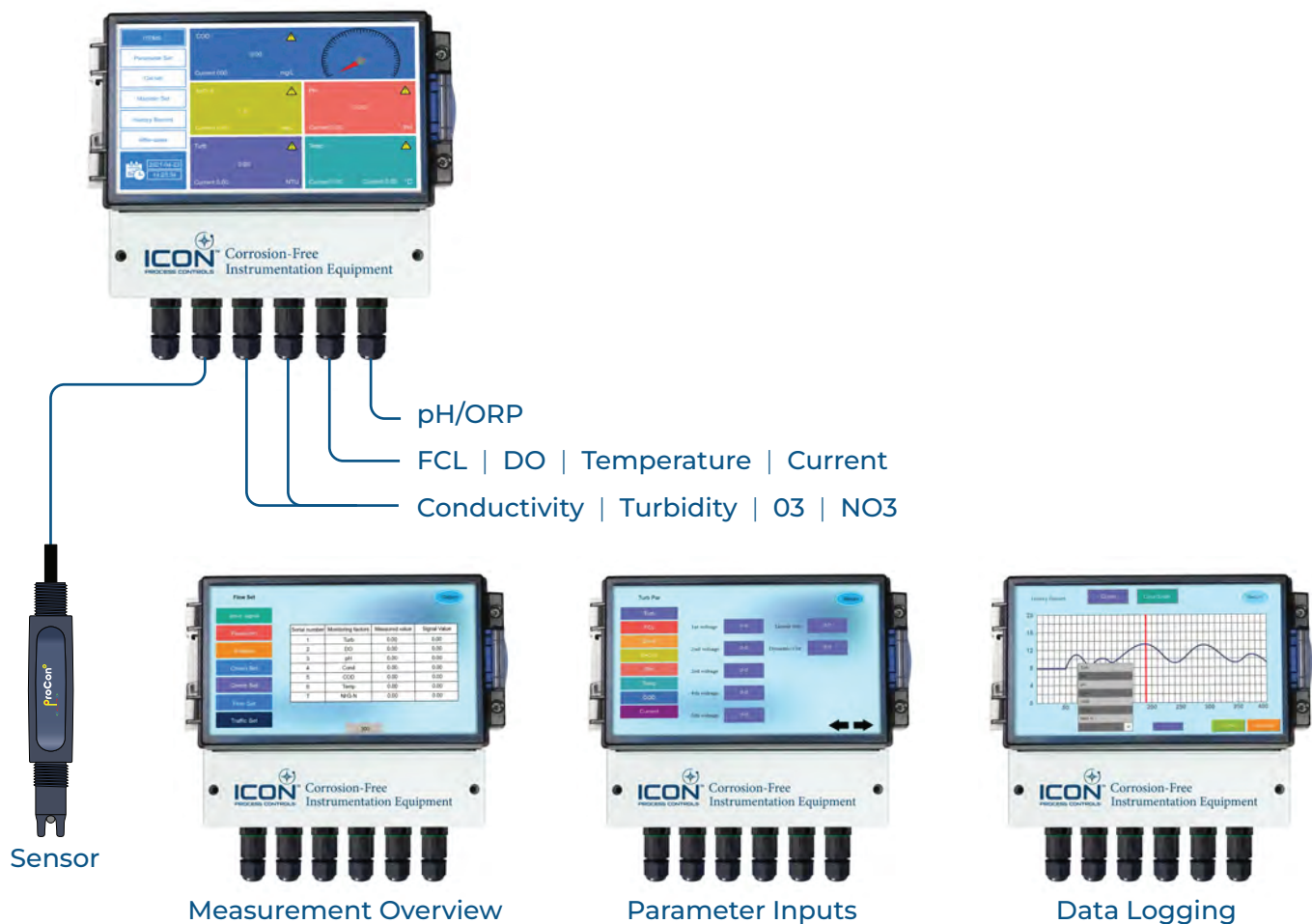
**7 Inch Color
Touch Screen**
**4 Discrete
Channel Inputs**

1 Really Versatile Controller

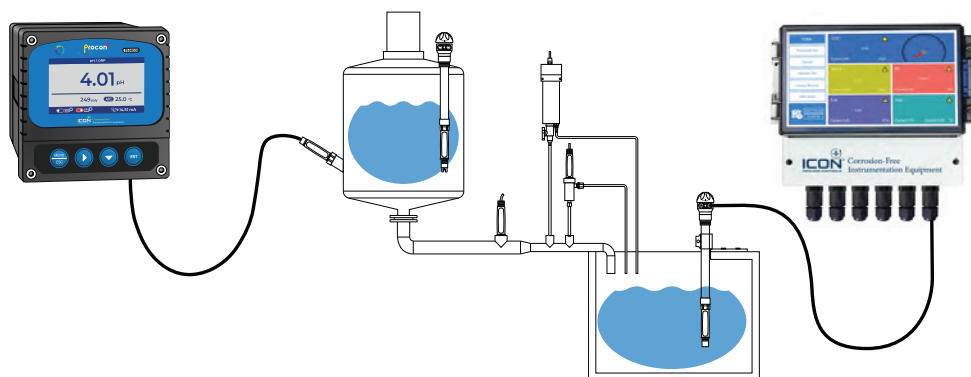
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Display Descriptions



Typical Application



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Technical Specifications

pH	
Range	0 –16pH
Accuracy	±0.01pH
Resolution	0.01pH
Temperature	PT1000 PT100 Auto or Manual

ORP	
Range	-2000 – +2000 mV
Accuracy	±1mV
Resolution	±1mV
Temperature	PT1000 PT100 Auto or Manual

Conductivity	
Range	0.000µS/cm – 400.0mS/cm
Accuracy	0.001µS/cm – 0.1mS/cm
Resolution	±0.5% F.S
Temperature	K=0.01 0.1 1.0 10 20

Turbidity	
Range	0 – 4000NTU
Accuracy	±1% F.S
Resolution	0.001NTU
Temperature	0° – 50°C

Dissolve O3	
Range	0.00~20mg/L
Accuracy	±0.10mg/L
Resolution	0.01mg/L
Temperature	PT1000

FCL	
Range	0~20mg/L
Accuracy	0.01mg/L
Resolution	0.01mg/L
Temperature	PT1000

DO	
Range	00.00 – 400% 0.00 – 40.00mg/L
Accuracy	0.0 – 10.0mg/L
Resolution	0.1mg/L
Temperature	0°C – 50°C

Salinity	
Range	0.0 – 400.0g/L
Accuracy	0.1g/L
Resolution	±5% F.S
Temperature	Reference 15°C – 25°C

Temperature	
Range	0°C – 100°C
Accuracy	±1%
Resolution	0.1°C
Principle	Thermal

Power: Enclosure Rating	
Power Supply	9 – 36VDC (std) or 100 – 240VAC
Consumption	3W – 5W
Rating	IP66 NEMA 4X

Keypad Descriptions

1. Enter Calibration Mode
2. Check Calibration Status

Cursor Down / Info

Confirm Selections



Main Menu



Return to Previous Menu



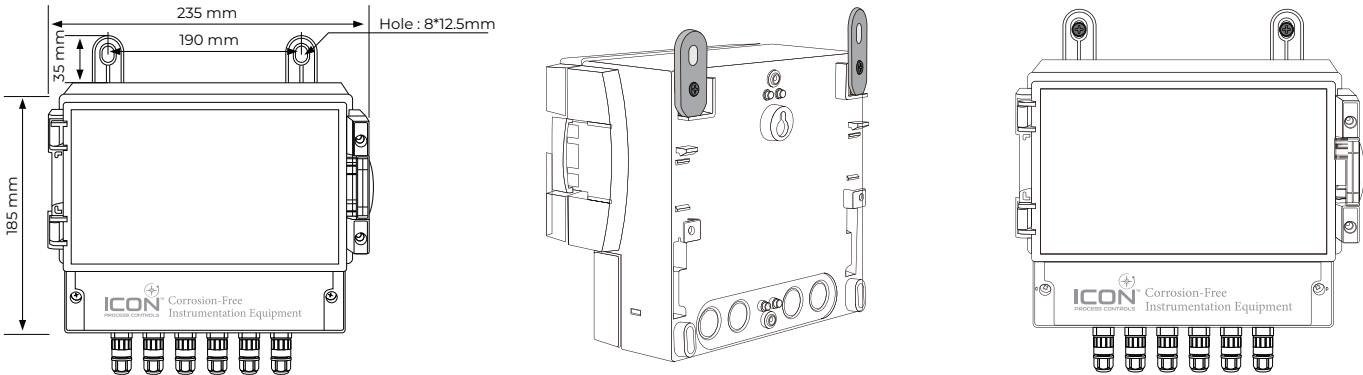
Cursor Right / Display Trend Chart



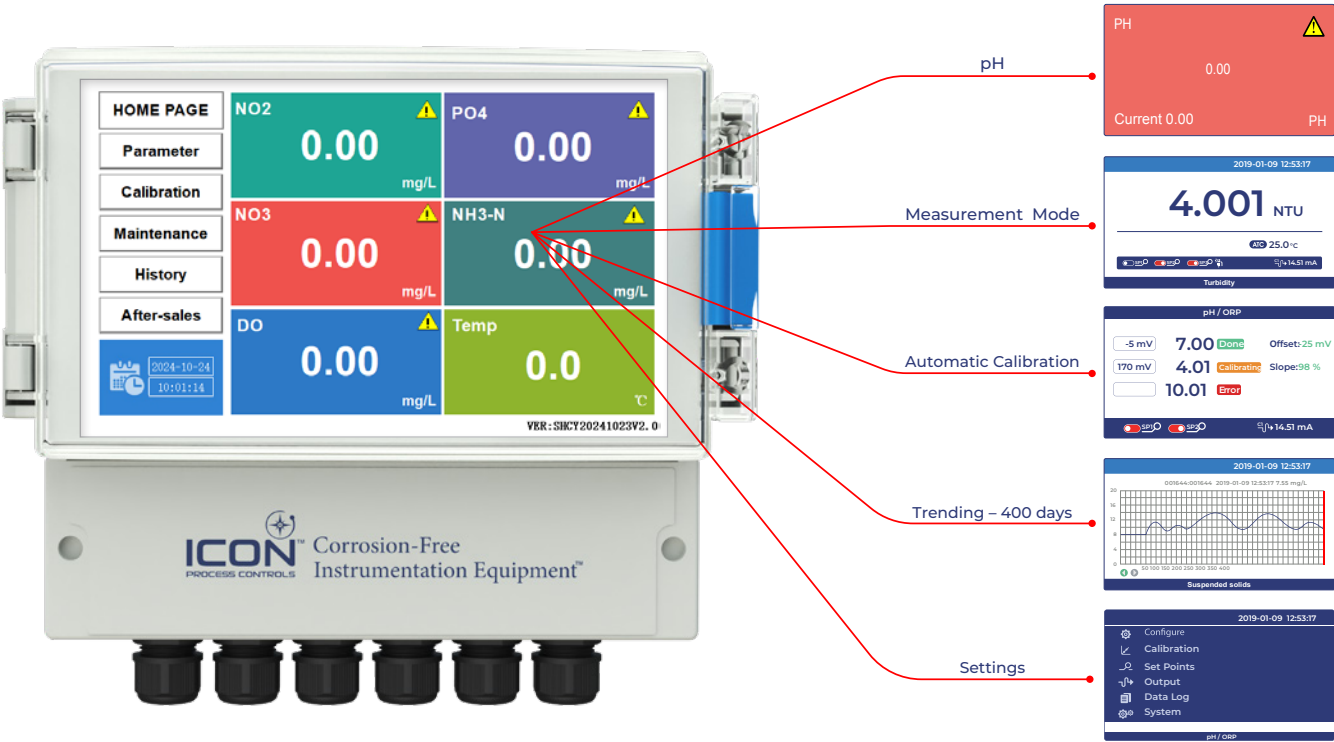
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Dimensions and Instrument Installation



1. Cable (Recommended stripping length for cables is at least 90mm)
2. Cable ties
3. Waterproof cable glands



Model Selection

U900 — Universal Controller							
Part Number	Power	Output	Power Cord	Displays			
U900-4-N-*****	24VDC	4-20mA & RS 485	No	*	*	*	*
U900-4-Y-*****	24VDC	4-20mA & RS 485	Yes	*	*	*	*

*Select 4 Sensor Types: Conductivity (C), Turbidity (T), Temperature (Y), pH (P), NO3 (T), Level (L), ORP (O), FLC (F), mA (M)
 Communication: RS-485 RTU Modbus
 Output: 4-20mA + Relays