iPro™ Wireless Surface Instruments

The iPro™ range of Wireless Surface Instruments enable remote data capture and transmission of parameters such as pressure, temperature, flow and tank level for limitless applications including well testing, hydraulic fracturing break-through, wellsite surveillance and automation, amongst others.

A typical iPro™ wireless network can be comprised by as many as 100 iPro™ Sensors that wirelessly transmit measured data to a single iPro™ Receiver positioned within a range of a few feet to over a mile, depending on antenna selection.

There are two iPro Receiver models: iPro 3000 and iPro Scada4x.

The iPro 3000 Receiver features a color touch screen display and cellular modem[1], along with base radio functionality. The unit delivers portability and, for convenience, a USB or RS485 interface can be used to connect to a PC for real-time viewing with optional iPro Monitor software. The iPro Scada4x Receiver features a NEMA enclosure for permanent, long-term installations.

Typical applications for the iPro Wireless Surface Instruments include hydro-testing, well testing, pre-frac testing, injection fall-off monitoring, well clean-out and many more. iPro Receivers and associated iPro Sensor setup can be customized to almost any industry application.

With a simple on-site configuration, iPro Sensors can communicate directly with other wireless devices for rapid out-of-the-box well site surveillance as well multiple other applications that require portability.

Available iPro Sensors include:

- Gauge Pressure
- Differential Pressure
- Temperature
- Turbine Flowmeter
- Analog Input
- Tank Level

NOTES:

[1] Other configurations: BGAN Satellite modem is available for the iPro Scada4x

SPECIFICATIONS

iPro Receivers: iPro 3000, iPro Scada4x									
Main Components	Base Radio Logger Touch screen interface Optional internal cellular data modem Internal Wi-Fi server with integral browser								
	iPro Sensor- Gauge Pressure								
Pressure Ranges									
Upper Range Limit (URL), psig	5	15	30	100	250	1000	2500	5000	10000
Overload Limit, psi	10	30	60	200	500	2000		12,000	
Safety Limit, psi	30	500	500	500	1,500	10,000		20,000	
	iPro Sensor - Differential Pressure								
Pressure Ranges									
Upper Range Limit, psi	± 100 in H2O			± 300 in H2O			± 25 in H2O		
Maximum Static Pressure, psi	2,000			2,000			2,000		
iPro Sensor - Temperature									
RTD Options	Several RTD curves are embedded in the microprocessor, including: DIN 100 Ω platinum, SAMA 100 Ω platinum, DIN 1000 Ω platinum and Special curves A 22-point offset function is available for non-standard curve programming and precision trimming of temperature value								
Linearization	RTD linearization to ± 0.09°F (0.05°C) Custom linearization with 22-point curve								
Accuracy (of Electronics)	± 0.1% of F.S. reading RTD: ± 0.002% of reading per 1.8°F (per 1°C) for ambient temperature effect								
iPro Sensor - Turbine Flowmeter									
Range and Resolution	Standard turbine sizes are 3/8” to 12” liquid flow rates ranging from 0.25 gpm to 12,000 gpm (0.95 to 45.42 lpm) Gas ranges are available from 0.1 to 12,000 ACFM for standard products Extended ranges and material compatibilities are available								
	iPro Sensor- Analog Input								
Inputs	Model WI-AI: Two 4-20mA inputs sharing a common ground and two discrete contact closure inputs Model WI-AV: Two 0-10 V inputs sharing a common ground and two discrete contact closure inputs								

iPRO V1.2 (08/31/18)