

Wireless Autonomous Communication Station

BECOME TRULY DIGITAL, LIVE WELL DATA IS KEY

DESCRIPTION

WiACS is a small footprint, wellsite relay station for remote areas, designed to gather surface and subsurface data at the wellhead and wirelessly communicate to the user's desktop or company visualization (PI) database. WiACS provides a seamless interface for all data and communication protocols. Can be set-up and operational from field to desktop by one technician in less than a day. No power lines or conduits are needed.

BENEFITS AND FEATURES

WiACS contains a solar panel, battery pack, communications card, IECEx Zone 1 rated termination, and a GSM cellular antenna. Data is relayed via cryptographic network protocol to a secure cloud server and downloaded to users with HTTPS for secure communications. Customer specific security protocols can also be implemented. Can be configured to handle inputs from several devices or wellheads if physically located close together. WiFi makes local setup a breeze.

APPLICATIONS

- Wellhead pressure and temperature gauges
- Surface flow meters
- Separator measurements
- Video surveillance
- H₂S, CO₂ remote sensing and monitoring
- Downhole pressure and temperature gauges

SPECIFICATIONS

<u>Description</u>	<u>WiACS Specification</u>
Explosive Atmosphere Rating:	International Electrotechnical Commission - IECEx Zone 1
Power Options:	Solar panel and battery pack or 110/220 VAC mains power
Upload Protocols	
Wireless Options:	4G LTE using SNOW 3G stream cipher UAE2 confidentiality and UIA2 integrity algorithms
Connection:	Secure Shell (SSH) Port Tunneling
Encryption:	Public-Key Cryptography or custom
Wired Options:	Modbus to SCADA
Download Protocols	
From Cloud:	HTTPS encrypted dashboard Transport Layer Security (TLS)
Visualization Options:	WiDash™ – WINS Dashboard for Live Data Visualization Customer PI Database or proprietary visualization software
Sensor Input/Output:	User defined / 0-5V, 5-25mA RS-232, RS-485 or others

