

Well Flow Management

Well Testing | Data Services

EDGE

The Expro Data Gathering Equipment (EDGE) is a computer based supervisory control and data acquisition system. It provides a total real time data solution, taking full advantage of extensive multi-tasking capabilities in acquiring surface well test data and when requested third party measurements.

EDGE, combined with Data to Desk allows real time data to be shared via a secure web site on multiple mobile data platforms. It provides data whenever and wherever it's required; at the well site, at desks, or remotely in any location, ensuring decisions are made based on real time data. The system is based on Intrinsically Safe (IS) circuitry with a standard set up of 16 to 20 analogue and 8 digital devices expandable up to hundreds of sensors depending on project requirements.

EDGE interfaces to sensors via wired or wireless devices. The sensor interface modules are responsible for gathering raw measurements and performing appropriate conversion to engineering units before sending data to the host computer. Additional data inputs via modbus or third party interfacing increases the capacity to thousands of input and calculated channels.

Expro uses its own proprietary software package, EdgeX, which incorporates programming and calculation protocols to recognized standards or best oil field practices.

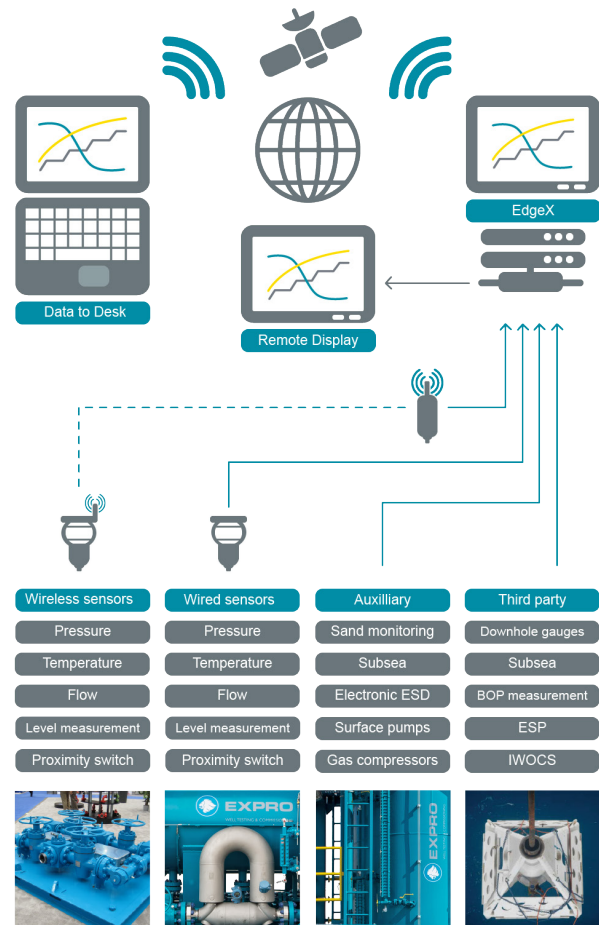
Expro are able to integrate within EDGE, measured and calculated data from a range of Expro services (WWS, DST, SONAR Meters, Fluids WGM, MPFM and subsea), along with third party requested downhole and surface information.

Applications

- Well testing
- Clean up/flow backs
- Production testing
- Production surveillance
- Production optimization
- Platform monitoring

Features and benefits

- Expandable real time data monitoring and processing
- Graphical user interface for live data and trending
- Visual and audible alarm monitoring
- Industry standard communications
- Data export and reporting
- Data to Desk



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Technical specifications - typical sensors

Number of analogue input channels	16 or 20 - expandable
Number of digital input channels	8 - expandable
Number of calculation channels	Up to 1,000
Interface unit	19" Rack Mountable or Stand Alone
Safety philosophy	Intrinsic Safety (IS)

Location	Pressure psi (bar)	Temperature °F (°C)	Flow	Level
Well head	0 to 20,000 (0 to 1,379)	0 to 300 (0 to 149)	MPFM	
	0 to 15,000 (0 to 1,034)	-50 to 250 (-46 to 121)	SONAR	
	0 to 10,000 (0 to 689)			
Upstream of choke manifold	0 to 20,000 (0 to 1,379)	0 to 300 (0 to 149)	MPFM	
	0 to 15,000 (0 to 1,034)	-50 to 250 (-46 to 121)	SONAR	
	0 to 10,000 (0 to 689)			
Downstream of choke manifold	0 to 5,000 (0 to 345)	0 to 300 (0 to 149)	MPFM	
		-50 to 250 (-46 to 121)	SONAR	
			WET GAS	
Test separator	0 to 4,000 (0 to 275)	0 to 300 (0 to 149)	Mass Flow	Guided wave radar Vibrating fork
			Orifice Meter	
			SONAR Pulse counter	
Surge tanks and flare lines	0 to 2,000 (0 to 138)	0 to 300 (0 to 149)	Annubar	Guided wave radar Vibrating fork
	0 to 1,500 (0 to 103)		SONAR	
			Pulse counter	

Additional measurements

- Level measurement with guided wave radar
- Air flow to burners with annubar flow meter
- Water cut measurement
- Sand production and monitoring
- Third party data
- Down hole gauge data
- ESP pump monitoring

Features

- Data to Desk (D2D)
- WITS
- WITSML
- Modbus