

EdgeX

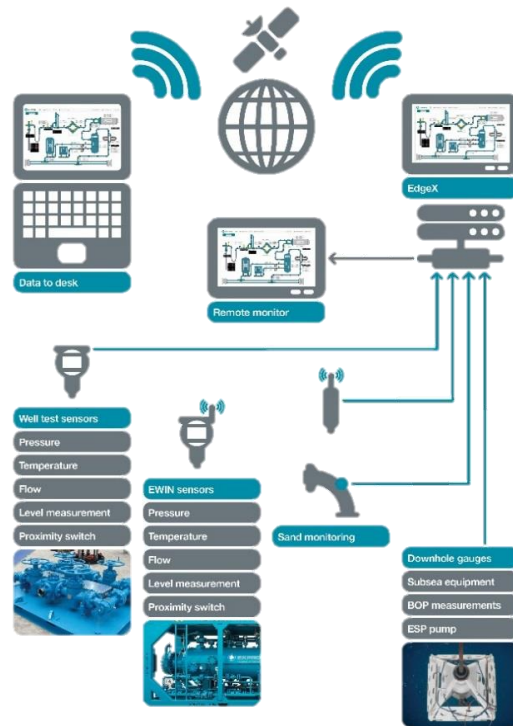
The Expro well test data acquisition system is **EdgeX** incorporating the **Data to Desk (D2D)** service.

It is a PC based supervisory control and data acquisition system providing a total data solution taking full advantage of the extensive multi-tasking capabilities acquiring surface instrumentation, flow measurements, other Expro services (WWS, DST, Meters, Fluids WGM, MPFM and Subsea), along with third party downhole/subsea data.

The **Data to Desk** service allows real time data to be shared via a secure web site on multiple mobile data platforms to users anywhere they need the data, at the well site, at their desk, or remotely in any location ensuring decisions are made based on real time data.

EdgeX combined with **Data to Desk** provides data, whenever and wherever it's required.

The EdgeX system is based on IS circuitry with a standard set up of 16 to 20 analogue and 8 digital devices expandable up to hundreds of sensors depending on the project requirements. The EdgeX 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 many thousands of input and calculated channels.

The EdgeX calculations are to recognised standards or best oil field practices.

Features and benefits

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

Applications

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

Technical specification – typical sensors

Location	Pressure	Temperature	Flow
Wellhead	0-20,000 psig (0-1379 bar)	0-300 °F (0-149 °C)	MPFM
	0-15,000 psig (0-1034 bar)	-50-250 °F (-46-121°C)	SONAR
	0-10,000 psig (0-689 bar)		
Upstream of choke manifold	0-20,000 psig (0-1379 bar)	0-300 °F (0-149 °C)	MPFM
	0-15,000 psig (0-1034 bar)	-50-250 °F (-46-121°C)	SONAR
	0-10,000 psig (0-689 bar)		
Downstream of choke manifold	0-5,000 psig (0-345 bar)	0-300 °F (149 °C)	MPFM
		-50-250 °F (-46-121°C)	SONAR
Test separator	0-2,000 psig (0-138 bar)	0-300 °F (149 °C)	Mass Flow (Coriolis)
	0-1,500 psig (0- 103 bar)		Orifice
			SONAR Turbine
Surge tanks and flare lines	0-2,000 psig (0-138 bar)	0-300 °F (149 °C)	Annubar
	0-1,500 psig (0- 103 bar)		SONAR Turbine

Additional measurements

Level measurement with guided wave radar
 Air flow to burners with annular flow meter
 Water cut measurement
 Sand production and monitoring
 Third party data
 Downhole gauge data
 ESP pump monitoring

Data transmission

Data to Desk (D2D)
 WITS
 WITSML