

Surface Data Acquisition System

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Surface Data Acquisition System (SDAS) is used to acquire data from a well test, extended production test or platform process plant and data can be output to screen, disk, printer or other PC's connected to a local or wide area network. SDAS is new generation PC based system for use with Windows_{NT}.

“Plug and play” design is adopted for interfacing the system with sensors and third party equipment.

SDAS uses host computer to gather, process and transmit data and sensor is to acquire raw measurement.

SDAS could monitor virtually any number of sensors, while simultaneously performing multiple operations on the data, both real-time and historic.

AGA-3 report is implemented to calculate gas rate.

Interface box include 16 analogue channels which take standard 4-20MA signal and 8 digital channels which take pulse signal from turbine meter.

Equipment rental and on stock sales available.

Features	Benefit
Safety on site	SDAS features a complete visual/audible alarm system which can be configured, with upper and lower limits, to alert the operator when any abnormalities occur
On site prevention of problems	With the capability of trending any parameter in real time, problematic development can be easily identified prior to it becoming serious. Examples of this can be hydrate formation, steam failure or temperature induced pressure rises
Well performance indicator	SDAS monitors all parameters simultaneously. This, for example, allows stable separator conditions to be identified prior to sampling
Data presentation	With numerous parameters being collected through the facility, SDAS allows the complete process to be monitored from one central point
Cost savings through reduced downtime	Should problems occur during operations the SDAS can be used to analyse where and why these problems occurred. This can be particularly useful for identifying leaks, control line problems and corrosion problems. Early warning often allows remedial action to be taken before the problem affects the viability of the test
System versatility	Virtually any sensor can be monitored by the SDAS including wind speed, heave monitoring, sand production, downhole surface read-out gauge or BOP temperature sensor. Standards systems are configured to monitor three stage separator systems which are typical to EWT hookups, qualified personnel can customise SDAS to specific client requirements while on site

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Technical Specification		
Wellhead/Choke Manifold Area		
Wellhead	1x Pressure Probe	0-15000 psi (10k psi optional)
	1x Temperature Probe	-30-350°F
Upstream Choke	1x Pressure Probe	0-15000 psi (10k psi optional)
	1x Temperature Probe	-30-350°F
Downstream Choke	1x Pressure Probe	0-5000 psi
	1x Temperature Probe	-30-350°F
Annulus	1x Pressure Probe	0-15000 psi (10k psi optional)
Separator Area		
Separator/Gas Line	1x Pressure Probe	0-2000 psi
	1x Temperature Probe	-30-350°F
	1x Differential Pressure	0-400 in WC
Separator/Oil Line	1x Temperature Probe	-30-350°F
Oil/Water Line	3x Turbine Meters	0-13,000 bbls/day
Additional Sensors and Services		
Sand Production	Burner Heat Monitors	
Downhole ESP Pump	Surface Read-Out Gauge	
Wind Speed and Direction	Modem from the well site to client office in real time	
Interface to typical rig systems (eg wits)		



Interface Box



Multicore Cable



Singlecore cable