

SUBDUER®

Stay on top of everything below.



Do you want to detect ESP motor problems in advance and become proactive in your approach to maintenance? Then Subduer is your Number 1 choice for variable speed drive control on your ESP application—combining quality with affordable pricing.

LONG ESTABLISHED AS THE INNOVATOR IN PUMP DRIVE TECHNOLOGY, SPOC HAS PACKED IT ALL INTO THE SUBDUER.

- ➔ A touch screen interface designed for use by the field hand who doesn't want to be a drive engineer
- ➔ Sine wave filters that completely eliminate voltage spikes to your motor come standard on every Subduer drive protects your motor to over 15,000 feet of cable
- ➔ Integration with a host of down-hole sensors to monitor, control and automate your operation
- ➔ Total, two-touch control over the start-up process
- ➔ Total, two-touch control over pump speed
- ➔ Easy access to the information you need to maximize production at the well site and through our Well InSight SCADA system or your legacy system.
- ➔ Rugged, custom-built packaging available from Arctic to Desert conditions
- ➔ The smallest footprint in the industry
- ➔ Reliability and quality come standard with our two year warranty on every drive
- ➔ The most complete range of drives in the industry, from 5KVA to 1250KVA and beyond (3.3Amps to 1640Amps and above) @ 480VAC

PROVIDE HISTORICAL AND PRODUCTION DATA

- ➔ Trending & run history
- ➔ Data logging with USB expandable memory
- ➔ Midnight custody data transfer
- ➔ Single touch USB download to USB memory
- ➔ SCADA ready product

INTUITIVE OPERATOR INTERFACE THAT HELPS YOU MAXIMIZE PRODUCTION

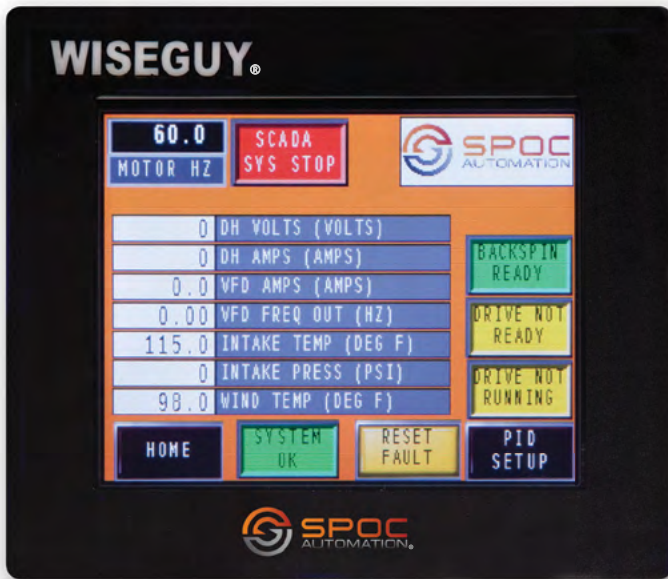
- ➔ Downhole Volts
- ➔ Downhole Amps
- ➔ Intake Temperature
- ➔ Intake Pressure
- ➔ Speed/Frequency Output
- ➔ Torque/Load/Current
- ➔ Date & time stamped

THIS IS THE NEXT LEVEL OF ESP MANAGEMENT

- ➔ Wider volume range than any fixed speed control system
- ➔ Drives can be configured on trailer units - allowing the ultimate flexibility and freedom to move equipment, size your pumps and maximize production
- ➔ Monitor screen provides all downhole sensor information as well as other instrumentation



PRODUCE MORE. SPEND LESS.



The WiseGuy interface allows control of a wide range of features all from one easy-to-use touch screen.

TECHNICAL DATA SPECIFICATIONS

HP Range	5-1250KVA +
Input Range 380 – 500 VAC ***	Standard
45-66 Hz Input Frequency	Standard
Output: AC Volts maximum	Std: Input Voltage Base, AFE: Input Voltage x 1.2 Max
Output Frequency Range: Hz	0 – 320 Hz
Overload: 1 Minute (CT/VT)	
NEMA 3R, Harsh Environment Enclosure	Standard with Sun Shield & Heat Exhaust System
Cold Weather Heater & Thermo Switch	Standard
Extreme Cold Weather Heat Kit	Optional
Listings Available	UL, cUL Optional
WiseGuy Color Touch Screen Operator Interface Communications	Standard
	Modbus RTU, TCP Standard, others available
Altitude (Maximum without De-Rate)	3300 ft. (1000m)
Line Voltage Variation	+10/-15% Standard, +10/-20% AFE Option
Efficiency	>97%
Power Factor (Displacement)	.98

*** Other voltages available, please consult SPOC



PRODUCE MORE. SPEND LESS.

INDUSTRY'S WIDEST RANGE OF DRIVES

- 5KVA - 1250KVA and beyond
- 240V, 480V, 600V power ranges
- Passive input filters
- Active front end
- 12 Pulse
- Low harmonic solutions available

PACKAGED FOR OIL & GAS INDUSTRY

- Engineered harsh duty drive enclosures
- Heat exhaust systems, solar load reduction shields
- Arctic to desert packaging
- Power voltage surge protection
- Best practices on controls & protection

RELIABLE, DEPENDABLE, LATEST DRIVE TECHNOLOGY

- Two year manufacturer's warranty
- Fifth generation drive technology
- Advanced drive manufacturing processes



100 HP installation shown. The Subduer drive can operate with traditional oil field switches and gauge controls, or it can fully automate the pump system.

For more information, contact us at 844.SPOC.VFD or visit us online at spocautomation.com



Rev. 102414