

Power Current Transducer PCT



Artificial Lift

The Leutert Power Current Transducer PCT helps to counterbalance the pump jack and to choose right size prime mover to reduce electrical costs.

Description

Like any other electric motor the prime mover of a pumping unit must be operated at rated voltage and frequency. The Leutert Power Current Transducer PCT measures voltage and takes single-phase and three-phase motor power measurements both in real time and over an extended time period. Measured values are transferred directly to a PC via Bluetooth.

Knowing above mentioned values allow the DYN 17 software to determine electrical costs and provide information on gearbox torque. On the bases of which the DYN 17 software makes recommendations on how to position the counterweights to balance the pumping unit.

The PCT also measures current. Motor overload can then be calculated by comparing the actual motor current to the rated full load current. The software will give recommendations on minimum motor size.

Technical Specifications

Sampling rate	:	100 s ⁻¹
Max. current clamp opening	:	0.4" (10 mm)
Power supply	:	230 V AC, 50/60 Hz
Interface	:	Bluetooth
Dimensions	:	7.87" x 4.13" x 1.34" (200 mm x 105 mm x 34 mm)
Weight	:	4.1 lbs (1.86 kg) case with accessories
Operating temperature	:	32 to 155 °F (0 to 50 °C)
Degree of protection	:	IP 65
Standardization	:	DIN EN 61010; 600 V / CAT III
Measuring ranges	:	AC voltage 0 V to 600 V true RMS value *) AC current 1 A to 200 A true RMS value *) Active power 50 W to 140 kW *) Apparent power 50 VA to 140 kVA *) Reactive power 50 Var to 140 kVar *) Power factor (cos φ) 0 to 1 Phase angle (φ) -90° to +90° Frequency (U < 50 V) 40 Hz to 100 Hz *) Rotary field (U > 50 V) yes
Accuracy *)	:	± 2 % FSO