



PCM IPAC

› INTELLIGENT VARIABLE SPEED DRIVE FOR PCP APPLICATION

SURFACE / DRIVE

Designed by a PCP expert and with the latest technologies, PCM IPAC offers you the most efficient way to drive your PCP and maximize your well performances.

PCM IPAC is an **intelligent VSD (Variable Frequency Drive)** controlled via a combined PLC (Programmable Logic Controller) and HMI (Human Machine Interface).

› MAIN FUNCTIONS

- Drive & protect PCP equipment
- Optimize well production
- Monitor PCP operating data
- Communicate data to and from external systems

› HIGHLIGHTS

- VSD 11 to 90 kW (15 to 120 HP)
- PCP oriented user-friendly interface on 10,1" touchscreen
- Internal storage data
- Settable alarms





» SPECIFICATIONS

VSD range	<ul style="list-style-type: none"> • 11-90 KW (15 to 120 HP) • FC-202: Standard / 110% over load • FC-302: Heavy duty / 160% over load • Power factor > = 0.9 • Efficiency: 98% • 6 pulse PWM
Input supply	<ul style="list-style-type: none"> • 3 phases • 380-480 VAC or 525-690 VAC • 50/60 Hz (+/-5%)
Output rated	<ul style="list-style-type: none"> • 0 to Max input voltage • VSD: 0.1 to 500 Hz • HMI limit to 60 Hz for PCP application
HMI	<ul style="list-style-type: none"> • PCP dedicated software • 10.1" touchscreen 1024x600 • Internal memory: 6 months data records

Enclosure	<ul style="list-style-type: none"> • IP55 or NEMA 3R • CEI61439-1&2 (UL/CSA on request) • Standard size (LxWxH) <ul style="list-style-type: none"> - 11-45 kW: 1000x400x1200 & 750mm stand - 55-90 kW: 800x500x1800 & 200 mm feet
Environment	<ul style="list-style-type: none"> • Ambient temperature: -10°C/+50°C (+14°F/+120°F) • Option for cold weather (-40°C/-40°F) • Max. relative humidity: 95% non-condensing
Harmonics	<ul style="list-style-type: none"> • 40% of THiD (Option for 10% or 5% THiD)
Connectivity	<ul style="list-style-type: none"> • 1 ethernet TCP/IP (SCADA) • 1 serial port RS485 (Communication HMI/VSD) • 1 USB port (to extract data from HMI) • Option for WIFI and GSM modules • Input: 8 x analog / 8 x digital • Output: 7 x digital • Optional I/O available on request

» PCM IPAC BENEFITS

PCP expert:

- Dedicated interface conceived by PCP specialist
- Settable alarms from VSD and I/O data
 - Min/Max with 2 levels (warning/stop)
 - Torque, flow rate, pressure, PTC, temperature...
- Acceleration & deceleration ramp (up to 3600 s)
- Start/stop and speed modification
- Internal data memory (FIFO principle)
 - Last 6 hours - 1 record/second
 - Last 6 months - 1 record/5 mins
 - Alarms, events and PCP completions

User-friendly:

- Simple and intuitive touch screen
- Quick download of data through USB stick
- Easy transmission and communication

ipac	
	Home Quick visibility on well status Display key PCP parameters
	Start / stop Set up speed and ramps Display real speed value live
	Data records Display min/max and average Donwhole/ surface/ energy data
	Data chart Display tendency chart Last 6 hours or last 6 months
	Completion Donwhole/surface information Set up motor, ratio specifications
	Alarm records Ongoing / History / Settings Set up alarms (warning / stop)
	Export data Easy data collection Select data for USB extraction
	Parameters Set up I/O scaling, HMI,... Level access, language...