



## 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

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

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

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