

# SixPAC

The SixPac is a robust, industrial grade RTU that can become your standard for field control. SixPAC's monitoring applications include Industrial Automation, Process Control, Oil and Gas Exploration, Production and Transportation, and Electric, Water and Gas Utilities.

## I/O Topology

- 12 channels of discrete inputs
- 4 channels of discrete outputs
- 8 channels of analog inputs
- 2 channels of analog outputs

## Support for IEC 61131 PLC Open Programming

- Ladder logic, function chart, function block, instruction list, structured text, flow chart, C++

## Wide Ranging Communication Support

- Integrated Freewave spread spectrum radio
- 2-RS232 ports
- 2-RS485 ports
- Ethernet port

## Wide Environmental and Power Support

- -40 to +70 C
- Class 1 Div 2
- 10-30 VDC voltage range

**Robust Industrial RTU**

**Stand Alone remote site control using IEC1131 or C++ programming**

**Unlimited user connectivity via internal wireless telemetry, Ethernet or 4 com ports**

**26 onboard discrete and analog I/O**

**Industrial PowerPC based**



**SixPAC MAKES INDUSTRIAL MONITORING RELIABLE AND EASY!**

# SixPac Technical Specifications

Local I/O	26
Operating System	LINUX
Unique addresses	16,000+ (sixnet) or 247 Modbus
Dynamic Ram	16 Meg
Program memory	16 Meg
Datalogging memory	512K battery backed up
IEC 61131 PLCopen support	ISAGraph
Languages supported	Ladder logic, function chart, instruction list, structured text, flow chart, C++
Communications supported	Ethernet, telemetry, telephone, radio, other wireless, fiber optic
CPU watchdog	Reset on error, status LED provides error code
Communication watchdog	Settable timeout and output action
Heartbeat watchdog	Settable timeout and output action
Ethernet Connection	10/100 bas Tx (autodetecting) RJ45 (autocrossover)
Isolation	1500 V RMS 1 minute (60Hz)
Diagnostic LEDs	Indicated speed and activity
Protocols supported	TCP/IP, ARP, UDP, DHCP, Modbus/TCP, SIXNET, more
Network port 1	Shielded RJ45
Serial ports	300-115, 200 baud
RS232 Port B	DB( Male DTE(TxD, RxD, CTS, RTS, CS, DTR, DSR/RI, GND)
RS232 Port D	DB9 Male DTE(TxD, RxD, RTS, GND)
RS485 Port A, C	Captive Screw terminal block plugs (GND, 485+, 485-, termination), 2-wire half duplex
RS485 network	Up to 32 stations
RS485 distance	Up to 1 Km
Diagnostic LEDs per port	RxD, TxD
Flow Control	Hardware, software, RTS party
Discrete digital inputs	12 channels
Guaranteed ON voltage	9 VDC
Maximum Voltage	30 VDC
Guaranteed Off	5.0 VDC & 1.5 mA DC
Input resistance	10K Ohms
Input current@ 24 V	3mA

Filtered ON/OFF delay	25 ms (20Hz max counting)
Fast ON/OFF delay	4 ms (100 Hz max counting)
Count rate	(10kHz on channel 1, above for other rates)
Discrete digital outputs	4 channels (10-30 VDC)
Max output per channel	1 Amp
Max output per RTU	4 Amps
Max. OFF state leakage	0.05 mA
Minimum load	1 mA
Inrush current	0.05 Amps (100 ms surge)
Typical ON resistance	0.3 ohms
Typical ON voltage (@1A)	0.3 VDC
Analog Inputs	8 channels (0-10 V; 4-20 mA)
A/D resolution	16 bits(0.003%)
Full scale accuracy	+/-0.02%
Span and offset temp. coef.	+/- 50 ppm per degree C
Input impedance (4-20mA)	200 Ohm nominal
Input impedance (0-10 V)	50 kOhm Nominal
Current protection	Self resetting fuses
DMRR (differential mode rejection)	66 dB at 50/60 Hz
Analog Outputs	2 channels (4-20 mA)
D/A resolution	16 bits
Full scale accuracy	+/-0.02%
Span and offset temp coef	+/-50ppm per Cppper C
Max output settling time	5 ms
Load resistance range	0-750 Ohms
Short circuit protection	Current limiting
Frequency Amplifier	Differential input
Input voltage swing	7 Vrms
Frequency Range	2 Hz to 10kHz
Sensitivity	+/- 20mV
Input Impedance	6.8 kOhm per channel
Environmental	Din rail or flat panel mountl
Input voltage	10-30 VDC
Input power (@24Vdc)	3.1 W
Temperature	-40 to +70 C
Humidity	5% to 95% RH
Hazardous location	Class 1 div 2 pending



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Dycor reserves the right to make changes to specifications of products described in this data sheet at any time without notice and without obligation to notify any person of such changes.

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