



INPUTS & OUTPUTS

Removable I/O connectors	Yes
Maximum I/O points	32 x Digital Input 8 x Digital Output 8 x Analogue Input

ANALOGUE INPUTS

Type of input	-20mA to +20mA or -5V to +5V
Resolution	20 bits
Accuracy	0.1% (voltage) 0.15% (current)
Sensor supply output	24V DC
Sampling Period	1 second to 1 day

DIGITAL INPUTS

Type of input	Volt free contacts
Contact wetting voltage	24V DC nominal
Sampling Period	1ms to 1 day

DIGITAL OUTPUTS

Type of Output	Solid state relay (Photo MOSFET)
Maximum Switching Voltage	48V AC or +/- 48V DC
Maximum Switching Current	200mA DC
On Resistance (Typical)	0.5 Ohms
On Resistance (Maximum)	1 Ohms

PROCESSOR UNIT

Type	Kinetis K66 (ARM Cortex M4) 180MHz
Flash	8MB Flash
SRAM	16MB SRAM (with SuperCap Backup) + 256KB CPU SRAM
Memory (SD Card)	Up to 32GB
Real-time clock	Yes
Event logging	WITS Log 376,828 entries (Provisional) @107,662 Dataset events (WITS) or @251,212 standard DNP point events

COMMUNICATIONS

Option Card x 2	GPRS 2G/LTE 4G/PSTN V92, Ethernet, RS232, RS485
Protocols	WITS DNP3 1.1, 1.2, 1.3 Web Server (HTTP), FTP, Telnet, DNP3 Slave, Modbus Master, Modbus Slave, AB DF1 Master, Mitsubishi A1S Master, Omron Hostlink Master, Ethernet/IP Master

CONFIGURATION

Local (PC/Laptop)	Yes using CATool
Remote via network	Yes via WITS DNP3
Programming Languages	Isagrat IEC61131-3 Sequential Function Chart, Function Block, Ladder, Structured Text, Instruction List

POWER

AC supply	90 - 265V AC
DC supply	10 - 15V DC
Solar supply	Can be powered by any PSU 10-15V DC
Power down modes	Full Sleep, Snooze with IO monitoring
Battery back up	Yes
Battery size	12V Lead Acid
Battery Charger	Built in battery charger option

ENVIRONMENTAL

Working temperature	-20°C to +70°C
Storage temperature	-20°C to +85°C
Relative Humidity	5 to 95% RH @ 25-40°C (non-condensing)

DIMENSIONS

Width	182mm
Height	188.4mm
Depth	54mm
Weight with internal PSU	1.6kg

MOUNTING

Backplate, DIN Rail, Enclosure options
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DIAGNOSTICS

Local watchdog timer	Yes
Communication status	Web page / LCD Display
Configuration display	Web page / LCD Display
I/O Status	Web page / LCD Display
Debug	Web page / LCD Display
Communications analyser	Web page / LCD Display
User MMI	LCD Touch Screen Display