



S2000NANO

Battery operated, ultra-low power wireless telemetry unit and data logger for remote applications

INPUTS & OUTPUTS

Removable I/O connectors	Yes
Maximum I/O points	1 x Digital Output 5 x Digital Input 2 x Analogue Input

ANALOGUE INPUTS

Type of input (not independent)	-20mA to +20mA or -5V to +5V
Resolution	20 bits
Accuracy	0.1% (voltage) 0.29% (current)
Sensor supply output	24V DC
Sampling Period	1 second to 1 day

DIGITAL INPUTS

Type of input	Volt free contacts
Contact wetting voltage	5V DC nominal
Sampling Period	1ms to 1 day

DIGITAL OUTPUTS

Type of Output	Solid state relay (Photo MOSFET)
Maximum Switching Voltage	16VAC/35VDC
Maximum Switching Current	200mA DC
On Resistance (Typical)	1 Ohms
On Resistance (Maximum)	10 Ohms

PROCESSOR UNIT

Type	Kinetis K66 (ARM Cortex M4) 96MHz
Flash	8MB Flash
SRAM	4MB SRAM + 512KB FRAM + 256KB CPU SRAM
Memory (SD Card)	Up to 32GB
Real-time clock	Yes
Event logging	WITS Log - 32,638 entries (FRAM Log) OR 114,684 entries (SRAM Log) (4MB SRAM) @32,764 Dataset events (WITS) or @76,450 standard DNP point events (4MB SRAM)

COMMUNICATIONS

Wireless	GPRS 2G/ LTE 4G or GPRS 2G/ LTE CAT-M1
Local	USB
Protocols	WITS DNP3 1.1, 1.2, 1.3 Web Server (HTTP) FTP Telnet DNP3 Slave

CONFIGURATION

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

POWER

Battery (default)	21.6V DC lithium battery 13 Ah
Power down modes	Full Sleep, Snooze with IO monitoring

ENVIRONMENTAL

Working temperature	-20°C to +70°C
Storage temperature	-20°C to +85°C
Submersion	IP68 to 4M for 4 days

DIMENSIONS

Width	142mm (5.59")
Height	197mm (7.75")
Depth	115mm (4.52")
Weight	1.5kg

MOUNTING

Backplate, DIN Rail, Enclosure options
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DIAGNOSTICS

Local watchdog timer	Yes
Communication status	Web page
Configuration display	Web page
I/O Status	Web page
Debug	Web page
Communications analyser	Web page

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