



TBOXNANO

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

INPUTS & OUTPUTS

Removable I/O connectors	Yes
Maximum I/O points	4 x Digital Inputs 1 x Digital Output 3 x Analogue Inputs 1 x RS485 serial port
Digital modules	Built in
Analog modules	Built in

ANALOGUE INPUTS

Type of input	2 x 4 - 20mA
(not independent)	1 x 0 - 5V
Resolution	20 bits
Accuracy	0.1% (voltage) 0.15% (current)
Sensor supply output	24VDC

DIGITAL INPUTS

Type of input	Volt free contacts
Contact wetting voltage	5VDC nominal
Input pulse frequency	0 - 5Hz

DIGITAL OUTPUT

Type of output	Solid State Relay
Voltage max	35 V
Current max	200 mA DC

PROCESSOR UNIT

Type	Kinetis K66 (ARM Cortex M4) 96Mhz
Flash	8MB Flash + 2 x 1MB CPU Flash
RAM	4MB SRAM + 256KB CPU SRAM
Memory (SD card)	Up to 32GB
Real-time clock	Yes
Event logging	Expansive historical data storage capability

APPROVALS

CE, UL/CSA, C1D2, FCC, IC, RCM, RED

COMMUNICATIONS

Wireless	LTE/4G NB-IoT (Cat M1 & NB1)
Local	USB RS485
Protocols	Modbus (RTU/TCP, Master/Slave), DNP3 IEC 60870-5-104 Others available on request

M2M COMMUNICATION

Type (-4E)	LTE/4G
Type (-M1)	NB-IoT (Cat M1 & NB1 + GPRS fallback)
LTE Frequencies	800, 900, 1800, 2100, 2600
NB-IoT Frequencies	700, 800, 850, 900, AWS1700, 1800, 1900, 2100

CONFIGURATION

Local (PC/Laptop)	Yes
Remote via network	Yes
Programmable Logic	Yes

POWER

Battery (default)	21.6VDC lithium battery 13 Ah
Power down modes	Yes

ENVIRONMENTAL

Working temperature	-40°C to +70°C
Storage temperature	-40°C to +85°C
Submersion	IP68 4 metres for 4 days

DIMENSIONS

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

MOUNTING

Pole, wall, with wire hanger for metering chamber



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