



Product ID: Mex06
Category: Datalogger radio

Datalogger Controller of extremely low consumption for monitorization and remote control with GPRS/NB-IoT o RF and 802.15.4 communications.

TECHNICAL SPECIFICATIONS

CPU	16bits microcontroller @ 16MHz with 256Kb Flash, 16Kb RAM
Memory	Dataflash of 4Mb for data storage
Additional memory	Micro-SD slot for additional memory (up to 32Gb) and reserved for future use
Watchdog timer (WDT)	Internal Watchdog available
ADC	ADC 16bits multiplexed to the 4 inputs
LED indicators	3 status LEDs (Supply system, radio transmission and radio reception)
Real time clock	Internal without battery / External with battery (optional)

I/O AND COMMUNICATIONS PORTS

I/O	2 pulse digital inputs for water counters. Maximum frequency of 100Hz 4 analog inputs (by current or voltage) with an adjustable gain: 0-1.25V, 0-2.5V, 0-5V, 0-10V, 4-20mA The supply of the analog inputs is adjustable from 0-12V (for 12V batteries)
Communications ports	1 x RS-232 (reserved for future use) 1 x SDI-12 for up to 8 probes 1 x RF 802.15.4g
Additional communications ports	GSM/GPRS and NB-IoT Networks
Protection of the I/O	All of the I/O are protected against incorrect wiring with the configuration, and the following restrictions: Max. voltage in I/O 20Vdc

SUPPLY CIRCUIT

Supply voltage	5V ~ 14V. Supports led-acid batteries of 6V and 12V and 12,8V LiFePO4 Automatic detection of battery and charger
PV Charger	MPPT for 12V solar pannel (36 serial cells)
Average consumption	2,75 mA
Autonomy	2000h with 7Ah battery

ENVIRONMENTAL CONDITIONS

Working temperature	-25° ~ 85°C* *If LiFePO4 battery is used, the operating range is from 0° to 60°C
Humidity	5% ~ 95% (without condensation)

INFORMATION ABOUT ORDERS

Minimum order	1
Order refefenc	Mex06

CONSTRUCTION FEATURES

Dimensions	162x252x120mm(W/H/D)
Box material	Polycarbonate
Installation type	Superficial
Degree of protection	IP67
Weight	1026g without battery 3558g with lead battery 1386g with lithium battery

CERTIFICATES AND DECLARATIONS

Rules	EN 61000-6-2:2019 EN 61000-6-3:2007 + A1:2011 RF estándar ETSI EN 300 220, EN 54-25
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This product is compatible with the RoHS (2011/65/UE)