MEX06

PRODUCT ID: Mex06

CATEGORY: Radio Datalogger

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
Real time clock	Internal without battery / External with battery (optional)
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)
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

Odin Solutions, S.L
Calle Palma de Mallorca 2 | 30009 – Murcia (España)
+34 902 570 121 | info@odins.es

MEX06

PRODUCT ID: Mex06

CATEGORY: Radio Datalogger

Working temperature	-25º ~ 85ºC
Humidity	5% ~ 95% (without condensation)
Degree of protection	IP67
INFORMATION ABOUT ORDERS	
Minimum order	1
Order refefence	Mex06

CONSTRUCTION FEATURES	
Dimensions	162x252x120mm (W/H/D)
Box material	Policarbonate
Installation type	Superficial installation
CERTIFICATES AND DECLARATIONS	
Rules	EN 61000-6-2:2005 EN 61000-6-3:2007 + A1:2011 RF standard ETSI EN 300 220, EN 54-25
RoHS compliant	This product is compatible with the RoHS (2011/65/UE)

Odin Solutions, S.L
Calle Palma de Mallorca 2 | 30009 – Murcia (España)
+34 902 570 121 | info@odins.es