



## MCF-LW06485

### RS485 to LoRaWAN® interface

This interface can be interfaced to any Modbus device to read and write any register of the connected device through the LoRaWAN® platform. Configuration is simply made using a configuration file uploaded to the interface.



### Characteristics:

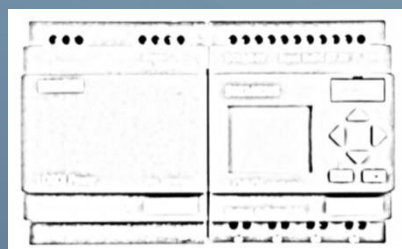
- CPU Cortex M4
- RTC
- EEPROM 32KB
- Flash 1MB
- Encryption AES 128 bit
- LiPo rechargeable battery
- Class C LoRaWAN® stack EU868, AS923, AU915, US915 EU868, AS923
- Modbus RS485
- USB On The Go
- IoT node setup and firmware upgrade via USB interface
- Power supply 10-36Vdc
- Storage temperature range -20 + 80 °C
- Working temperature range -10 + 70 °C
- Dimensions L x H x P: 81 x 60 x 24mm

### Applications:

- Remote industrial interface
- Remote process supervisor
- Datalogger

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RS485 to LoRaWAN® interface



MODBUS



## Configuration file example

	A	B	C	D	E	F	G	H	I	J	K
1	Label	Modbus address	Modbus function	Dec address	Modbus length	Description	Unit	number of bytes	numeric	signed	multiplier
2	Frequenza	5	3	18442	2	Frequency	Hz	4	true	false	0,001
3	Tensione	5	3	18444	2	Ph-N Voltage : V1	V	4	true	false	0,01
4	Corrente Carico 1	5	3	18458	2	Current : I1	A	4	true	false	0,001
5	Potenza Attiva Carico 1	5	3	18476	2	Total active power L1	W	4	true	true	1
6	Potenza Reattiva Carico 1	5	3	18478	2	Total reactive power L1	var	4	true	true	1
7	Potenza Apparente Carico 1	5	3	18484	2	Total apparent power L1	VA	4	true	false	1
8	Fattore di potenza Carico 1	5	3	18486	1	Total power factor L1	-	2	true	true	0,001
9	Corrente Carico 2	5	3	20506	2	Current : I2	A	4	true	false	0,001
10	Potenza Attiva Carico 2	5	3	20524	2	Total active power L2	W	4	true	true	1
11	Potenza Reattiva Carico 2	5	3	20526	2	Total reactive power L2	var	4	true	true	1
12	Potenza Apparente Carico 2	5	3	20532	2	Total apparent power L2	VA	4	true	false	1
13	Fattore di potenza Carico 2	5	3	20534	1	Total power factor	-	2	true	true	0,001
14	Corrente Carico 3	5	3	22554	2	Current : I3	A	4	true	false	0,001
15	Potenza Attiva Carico 3	5	3	22572	2	Total active power L3	W	4	true	true	1
16	Potenza Reattiva Carico 3	5	3	22574	2	Total reactive power L3	var	4	true	true	1
17	Potenza Apparente Carico 3	5	3	22580	2	Total apparent power L3	VA	4	true	false	1
18	Fattore di potenza Carico 3	5	3	22582	1	Total power factor L3	-	2	true	true	0,001
19	Tempo di esercizio totale	5	3	512	2	Total operating hours counter	s	4	true	false	1
20	Tempo di esercizio parziale	5	3	514	2	Partial operating hours counter	s	4	true	false	1
21	Energia Attiva Positiva Carico 1	5	3	19843	2	Total Positive active Energy : Ea+ L1	KWh	4	true	false	1
22	Energia Attiva Negativa Carico 1	5	3	19846	2	Total Negative active Energy : Ea- L1	KWh	4	true	false	1
23	Energia Reattiva Positiva Carico 1	5	3	19849	2	Total Positive reactive Energy : Er+ L1	Kvarh	4	true	false	1
24	Energia Reattiva Negativa Carico 1	5	3	19852	2	Total Negative reactive Energy : Er- L1	Kvarh	4	true	false	1