



## MCF-LW12MET

### LoRaWAN™ Mono-Phase Energy Metering with I/O

This compact metering can be used for monitoring and checking the power of electronic devices, and can remotely switch devices on/off and read the state of a digital input.

#### Characteristics:

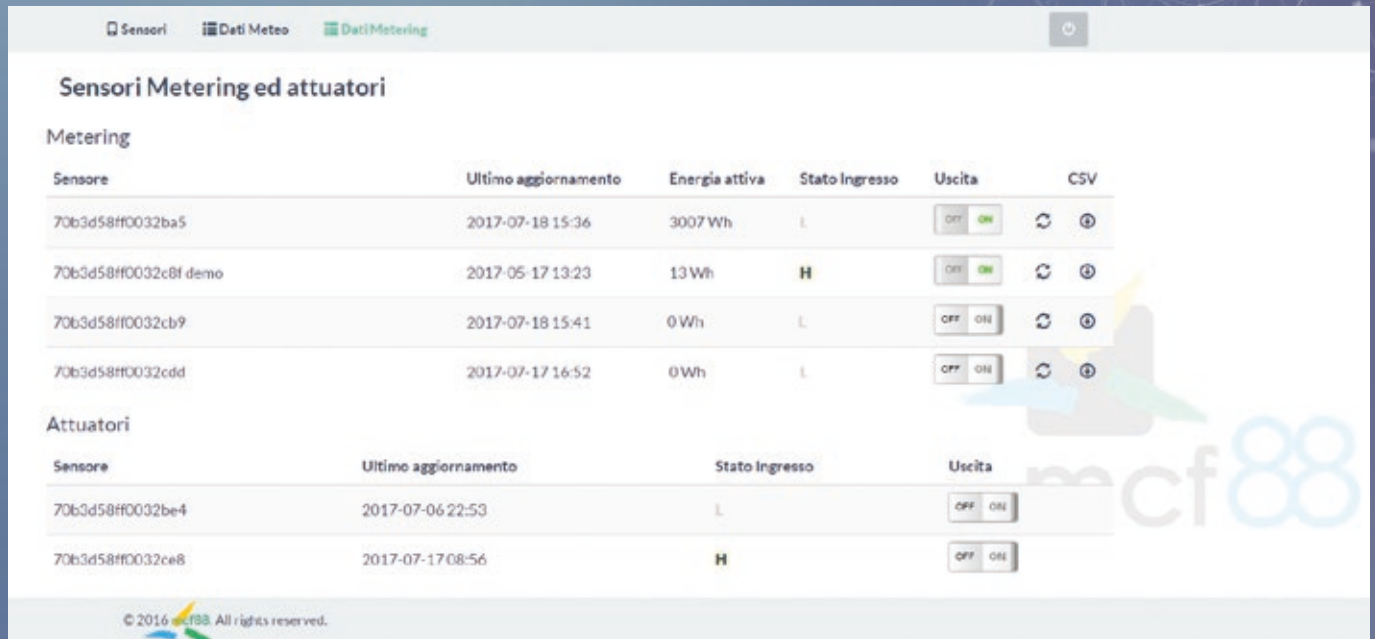
- CPU Cortex M0+
- RTC
- EEPROM 32KB
- Flash 64KB
- Encryption AES 128 bit
- Class C LoRaWAN™ stack EU868, AS923
- Metering of a 230Vac - 16Amp Load (active, reactive and apparent energy, Class 0.2).
- Data are sent through LoRaWAN™ protocol for remote managing.
- Instantaneous reading of active, reactive and apparent power, voltage and current
- 1 opto-isolated input, capability 230Vac
- 1 relay output with COM, NO, NC contacts carrying 8Amp@230Vac
- NFC for IoT node setup, FW upgrade and data reading
- Power supply from line
- Storage temperature range -20 + 80C°
- Working temperature range -10 + 70C°
- Dimension: 53,4x87,2x25mm

#### Applications:

- Energy metering
- Powerline quality measure
- Monitoring of a remote input
- Managing of a remote actuator

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The screenshot shows a web interface with a navigation bar at the top containing 'Sensori', 'Dati Meteo', and 'Dati Metering'. The main content is titled 'Sensori Metering ed attuatori' and is divided into two sections: 'Metering' and 'Attuatori'.

**Metering Section:**

Sensore	Ultimo aggiornamento	Energia attiva	Stato Ingresso	Uscita	CSV
70b3d58ff0032ba5	2017-07-18 15:36	3007 Wh	L	<input type="checkbox"/> OFF <input checked="" type="checkbox"/> ON	<input type="button" value="↻"/> <input type="button" value="📄"/>
70b3d58ff0032c8f demo	2017-05-17 13:23	13 Wh	H	<input type="checkbox"/> OFF <input checked="" type="checkbox"/> ON	<input type="button" value="↻"/> <input type="button" value="📄"/>
70b3d58ff0032cb9	2017-07-18 15:41	0 Wh	L	<input type="checkbox"/> OFF <input type="checkbox"/> ON	<input type="button" value="↻"/> <input type="button" value="📄"/>
70b3d58ff0032cdd	2017-07-17 16:52	0 Wh	L	<input type="checkbox"/> OFF <input type="checkbox"/> ON	<input type="button" value="↻"/> <input type="button" value="📄"/>

**Attuatori Section:**

Sensore	Ultimo aggiornamento	Stato Ingresso	Uscita
70b3d58ff0032be4	2017-07-06 22:53	L	<input type="checkbox"/> OFF <input type="checkbox"/> ON
70b3d58ff0032ce8	2017-07-17 08:56	H	<input type="checkbox"/> OFF <input type="checkbox"/> ON

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Collected data are available for download in CSV format

	A	B	C	D	E	F
1	70b3d58ff0032ba5					
2	Data	Energia Attiva	Potenza Media	Energia Reattiva	Energia Apparente	Tempo Esercizio
3		Wh	W	VARh	VAh	minuti
4	15/07/2017 00:06	774	24	0	774	1806
5	15/07/2017 00:16	779	24	0	779	1816
6	15/07/2017 00:26	783	24	0	783	1826
7	15/07/2017 00:36	787	24	0	787	1836
8	15/07/2017 00:46	792	24	0	792	1846
9	15/07/2017 00:56	796	24	0	796	1856
10	15/07/2017 01:06	800	24	0	800	1866
11	15/07/2017 01:16	805	24	0	805	1876
12	15/07/2017 01:26	809	24	0	809	1886
13	15/07/2017 01:36	813	24	0	813	1896
14	15/07/2017 01:46	818	24	0	818	1906
15	15/07/2017 01:56	822	24	0	822	1916
16	15/07/2017 02:06	826	24	0	826	1926