Pietro Fiorentini

MPOWER

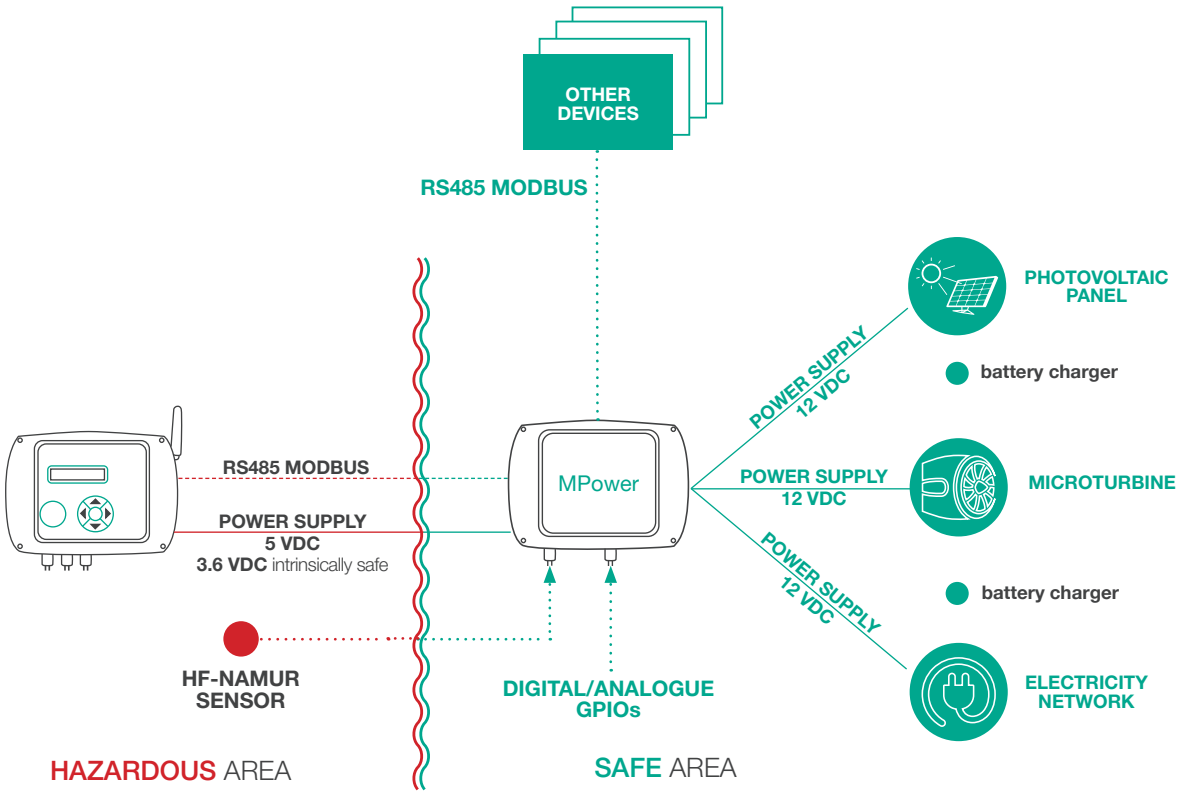
MPower is an intrinsically safe power supply barrier designed to supply MLog datalogger and Modus volume converter, used in gas pressure reduction stations and installed in hazardous areas (ATEX zone 0).

MPower can be powered by different energy sources, such as the electrical distribution network, photovoltaic panels or microturbines, ensuring high installation flexibility. In addition, MPower enables real-time communication and supports energy-demanding functions

District stations

Features	Values
NAMUR*	2 NAMUR inputs (power supply and signal conditioning)
Analogical inputs* (AI)	1 analogue input ±10VDC / ±20VDC 3 analogue inputs, 4-20 mA / ±10 VDC
Digital inputs* (DI)	4 digital inputs, dry contacts
Digital outputs* (DO)	2 digital outputs, open collector
Power supply input	12 VDC from electrical distribution network (MPower-INS) 12 VDC photovoltaic panel or microturbine (MPower-PP model)
Power supply output	5 VDC, 3.6 VDC (intrinsically safe)
Local communication	RS485 (Intrinsically safe RS485)
Communication protocols	MODBUS
Ingress protection	IP67 (wall mounting version) IP20 (DIN rail version)
ATEX Certification	II (1) G [Ex ia Ga] IIA
Ambient conditions	from -35°C to +60°C
Main dimensions / weight	200x150x80 mm / 0.5 kg (wall mounting version) 159x110x51 mm / 0.5 kg (DIN rail version)
(*) NOTE: available optionally with an internal expansion circuit board.	

Table 1 Features



Approvals

MPower is CE marked and certified according to European Directives 2014/30/EU (Electromagnetic Compatibility - EMC) and 2014/34/EU (ATEX)

EMC ATEX

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