



Certificate of Compliance

Certificate: 70207554

Master Contract: 274269

Project: 70207554

Date Issued: 2021-12-21

Issued To: mPower Electronics Inc.
3046 Scott Blvd,
Santa Clara,
CA 95054
USA

Attention: Yiqing Hang

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Wenyan (Annie) Qi
Wenyan (Annie) Qi

PRODUCTS

4828 01 – SIGNAL APPLIANCES – Combustible Gas Detection Instruments for Hazardous Locations

4828 81 – SIGNAL APPLIANCES – Combustible Gas Detection Instruments for Hazardous Locations

Certified to U.S. Standards

With mPower LEL+EC sensors or mPower LEL+EC sensors +Baseline PID (or OptoSense NDIR CO2 sensors):

Class I, Division 1, Groups A, B, C, D T4

Ex ia da IIC T4 Ga

Class I, Zone 0, AEx ia da IIC T4 Ga

With mPower LEL+Dynamant NDIR CO2 (or N2O)+EC sensors:

Ex ia da db IIC T4 Gb

Class I, Zone 1, AEx ia da db IIC T4 Gb



Certificate: 70207554
Project: 70207554

Master Contract: 274269
Date Issued: 2021-12-21

POLI multiple gas detector, type MP400*, portable, battery powered and rechargeable. Rated input: 3.7V. 0-100% LEL methane in air using mPower 4R LEL sensor and may include electrochemical toxic gas sensors and oxygen sensor, NDIR CO2 sensor, NDIR N2O sensor and PID sensor, Ambient -20 °C to +50 °C. It is charged and connected to data download device in the non-hazardous area only and Um=6Vdc.
 Product Model Code Definition:

MP400	*	Definition	Pump	Wireless module	Sensor supported
	Blank	Diffusion model, for MP400D, the suffix D is omitted by default.	No	No	All sensors listed in manufacturer's document number CER90100, Revision 4
	P	Pump model	Yes	No	All sensors listed in manufacturer's document number CER90100, Revision 4
	S	Super model	Yes	Yes, internal Antenna	All sensors listed in manufacturer's document number CER90100, Revision 4
	H	Wireless host model	No	Yes, external Antenna	All sensors listed in manufacturer's document number CER90100, Revision 4

4828 02 – SIGNAL APPLIANCES – Toxic Gas Detection Instruments for Hazardous Locations

4828 82 – SIGNAL APPLIANCES – Toxic Gas Detection Instruments for Hazardous Locations – Certified to U.S. Standards

With EC sensors only or EC sensors+Baseline PID and/or OptoSense NDIR CO2 sensors:

Class I, Division 1, Groups A, B, C, D T4
Ex ia IIC T4 Ga
Class I, Zone 0, AEx ia IIC T4 Ga

With Dynamant NDIR CO2 (or N2O)+EC sensors or Dynamant NDIR CO2 (or N2O)+EC sensors+Baseline PID sensor (or OptoSense NDIR CO2 sensor):

Ex ia db IIC T4 Gb
Class I, Zone 1, AEx ia db IIC T4 Gb

POLI multiple gas detector, type MP400*, portable, battery powered and rechargeable. Rated input: 3.7V. It can be configured with electrochemical toxic gas sensors and oxygen sensor, NDIR CO2 sensor, NDIR N2O and PID sensor, Ambient -20 °C to +50 °C. It is charged and connected to data download device in the non-hazardous area only and Um=6Vdc.
 Product Model Code Definition:

MP400	*	Definition	Pump	Wireless module	Sensor supported
-------	---	------------	------	-----------------	------------------



Certificate: 70207554
Project: 70207554

Master Contract: 274269
Date Issued: 2021-12-21

Blank	Diffusion model, for MP400D, the suffix D is omitted by default.	No	No	All sensors listed in manufacturer's document number CER90100, Revision 4
P	Pump model	Yes	No	All sensors listed in manufacturer's document number CER90100, Revision 4
S	Super model	Yes	Yes, internal Antenna	All sensors listed in manufacturer's document number CER90100, Revision 4
H	Wireless host model	No	Yes, external Antenna	All sensors listed in manufacturer's document number CER90100, Revision 4

Conditions of Acceptability:

1. The MP400* shall only be charged in a safe area using a charger approved as SELV or Class 2 equipment against CSA/UL 60950 or equivalent standards as defined in the Canadian Electrical Code C22.1, Section 16-200 and/or National Electrical Code (NFPA 70), article 725.121. The maximum voltage from the charger shall not exceed 6.0 Vdc.

Likewise, any data download device connected to the MP400* shall also be approved SELV or Class 2 equipment. The maximum voltage from the device shall not exceed 6.0 Vdc

2. The MP400* shall only be fitted with mPower battery pack PN: M004-3002-000 or 12.01.09.0003.
3. Before use, ensure that the ESD film on the display is not damaged or peeling, or the anti-static coating is not damaged.
4. The evaluated firmware version of MP400 and MP400H gas detector is V0.0.7.5, the firmware version of mPower 4R LEL sensor is V0.0.3.5.
5. The evaluated firmware version of MP400P and MP400S gas detector is V0.0.8.2, the firmware version of mPower 4R LEL sensor is V0.0.3.7.
6. When the M400* is used in a potentially explosive atmosphere, the oxygen content of ambient air is to be typically 20.9% v/v.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 60079-0:19	Explosive Atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-1:16 (r2021)	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" - Third Edition
CAN/CSA-C22.2 No. 60079-11:14 (r2018)	Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i"
CAN/CSA-C22.2 No.152-M1984 (r2016)	Combustible gas detection instruments
CAN/CSA C22.2 No. 61010-1-12	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements



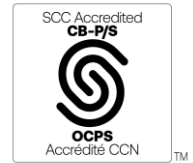
Certificate: 70207554
Project: 70207554

Master Contract: 274269
Date Issued: 2021-12-21

ANSI/UL 913-2019 Ed.8	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
ANSI/UL 60079-0-2020 Ed.7	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1-2020 Ed.7	Explosive atmospheres - Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/UL 60079-11-2018 Ed.6	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “i”
ANSI/ISA 12.13.01-2000 UL 61010-1, 3rd Edition	Performance Requirements for Combustible Gas Detectors Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Notes:

Products certified under Class C482801, C482802, C482881, C482882 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC).
www.scc.ca





Supplement to Certificate of Compliance

Certificate: 70207554

Master Contract: 274269

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70207554	2021-12-21	Original cCSAus certification for Multi Gas Detector MP400* (MP400, MP400P, MP400S, MP400H)