

# IV. PRODUCT SPECIFICATIONS

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| LoRaWAN Specification    | LoRaWAN 1.0.3, support for LoRaWAN Class A, Class C protocols                                  |
| Frequency Band           | Select 863~870MHz or 902~928MHz                                                                |
| Number of Channels       | Up to 8 concurrent channels for LoRa transmission                                              |
| LoRa Transmit Power      | 0.5W (up to 27 dBm)                                                                            |
| LoRa Receive Sensitivity | Down to -139dBm@SF12, BW 125 kHz.                                                              |
| Features                 | Dynamic data-rate adaptation (ADR)                                                             |
| Software                 | LoRa Package forwarder, Chirpstack, OpenVPN, Node-red, SSH root access                         |
| COMMUNICATION            |                                                                                                |
| Standard communication   | Ethernet 100Mbps, via outdoor RJ45 connector                                                   |
| Optional 4G LTE          | LTE Cat 4, Global bands                                                                        |
|                          | LTE FDD: B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28                    |
|                          | LTE TDD: B38, B39, B40, B41                                                                    |
|                          | UMTS: B1, B2, B4, B5, B6, B8, B19                                                              |
|                          | GSM: B2, B3, B5, B8                                                                            |
| Antenna Type             | 1 x external LoRa antenna via N-type connector, 1 x External antenna for LTE via SMA connector |
| Housinng                 | Aluminum alloy, powder coated, IP67, Wall mount installation                                   |
| Certified Ex d           | FTZU 03 ATEX 0207U, TÜV CY 18 ATEX 0206158 X, and IECEx FTZU 12.0017U, IECEx MSC 19.0001X      |
| Hazard Protection Label  | ATEX II 2G Ex db IIC T5/T6 Gb and ATEX II 2D Ex tb IIIC T100/T85°C Db                          |
| Standard                 | IEC-EN60079-0 IEC-EN60079-1 IEC-EN60079-31                                                     |
| Areas of application     | Zones 1 & 2 gas hazardous areas, Zones 21 & 22 hazardous areas containing flammable dust       |
| Working temperature      | -40 ~ 85°C                                                                                     |
| Size   Net weight        | H202xW126xD128 (not including antenna)/ ≈1500g                                                 |

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