

Sigfox Ex d Reader for Electronic Volume Corrector



Smart Agriculture, Smart Building, Smart City, Smart Facility, Smart Factory, Smart Energy

SKU: WSSFCEX-EVC

Safe Zone

Hazardous Zones

Ex d Approved SIGFOX Reader for Electronic Volume Corrector WSSFCEX-EVC



WSSFCEX-EVC-H1.PNG



WSSFCEX-EVC is the Sigfox reader to read process data from Electronics Volume Corrector (EVC) with Ex d approval for installation in Zone 1, Zone 2 or Safe Zone, and it can connect to any EVC with Modbus RTU communication or Mercury proprietary protocol. It will automatically read those parameters from EVC: corrected volume, uncorrected volume, gas pressure, gas temperature... With Ultra-low-power design and smart firmware allow the Sigfox device can last up to 10 years with single 2 x AA batteries (depends on configuration). It can supports all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7. Typical applications are monitoring of Gas metering skids, Gas metering system for Natural Gas, LNG, CNG...

Applications

Oil & Gas Pipeline Monitor

Notes For Applications

- Sigfox Ready**
Device are best operating performance on the SIGFOX network
- 10-Year battery**
Ultra-low power sensing technology from Daviteq with Ultra-low power wireless technology allow the sensor can last up to 10 years with 02xAA batteries
- Support Mercury Protocol**
The device can connects to any EVC with Mercury proprietary protocol
- Ex d Zones 1-2**
Ex d approval for installation in Zone 1, Zone 2 or Safe Zone

CONNECT TO ANY ELECTRONIC VOLUME CORRECTOR



WSSFCEX-EVC-H2.PNG

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com

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Updated date: Aug-28-2024


1/4


Specification

| | |
|-----------------------------|--|
| Type of EVC to connect | Connect to any Electronic Volume Corrector with Modbus RTU or Mercury protocol |
| Connector | Standard is AMP connector to work with Mercury Mini-Max EVC, for other EVC pls specify when ordering |
| Cable length | 10m shielded cable |
| COMMUNICATION | |
| Sigfox zones | RC1~RC7 |
| Antenna | N-male type external Antenna |
| Battery | 02 x AA Type 1.5VDC, working time up to 10 years (depends on configuration) |
| ATEX Certificates | IMQ 14 ATEX 005 X and TÜV CY 18 ATEX 0206158 X |
| Marking | ATEX II 2G Ex db IIC T5/T6 Gb and ATEX II 2D Ex tb IIIC T100/T85°C Db |
| Directive | ATEX 2014/34/EU |
| Standards | IEC-EN60079-0 IEC-EN60079-1 IEC-EN60079-31 |
| Applicable zones | Zone 1 - 21 (gas) and Zone 2 - 22 (dust) |
| Ambient working temperature | -40~85°C |
| Housing | Cast aluminium, powder coated, IP66 |
| Mounting | wall mounting holes |
| Product dimensions | H210xW100XD72 |
| Net weight | 1.5kg |
| Packaging dimension | W160 x D150 x H250 mm |
| Gross weight | < 1.6kg |

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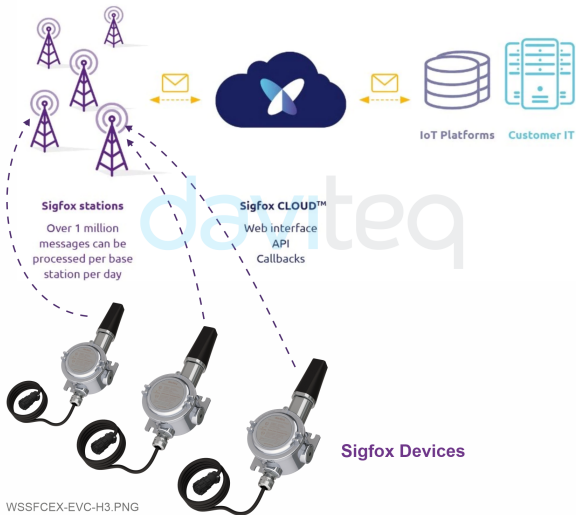
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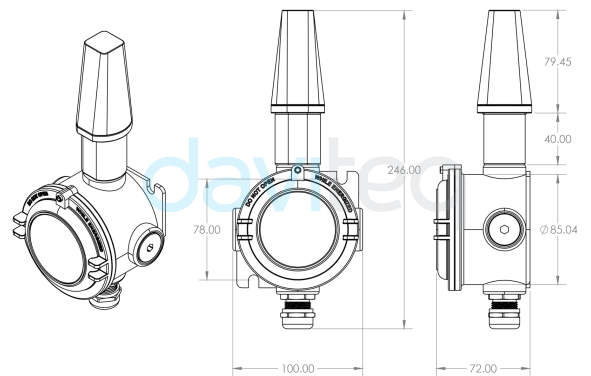
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2/4

SYSTEM ARCHITECTURE



DIMENSION DRAWING OF SIGFOX DEVICE
(Unit: mm)



RECOMMENDED BATTERIES FOR SIGFOX DEVICE

E91 AA Alkaline battery



-18 .. + 60 oC working temperature
10-year shelf life
3000 mAh Capacity
Price: 1X

L91 AA Lithium battery



-40 .. + 60 oC working temperature
20-year shelf life
3500 mAh Capacity
Price: 3.5X

WSSFCEX-EVC-H5.PNG

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Ordering Information

| ITEM CODE | DESCRIPTIONS |
|-------------------------|--|
| WSSFCEX-EVC-MINI-MAX-Z1 | SIGFOX-READY MERCURY EVC MINI-MAX READER, ATEX EX D APPROVAL ZONE 1/2, M20 CABLE GLAND WITH 10M SHIELDED CABLE AND AMP CONNECTOR, IP67 CAST ALUMINUM HOUSING, TYPE AA BATTERY 1.5VDC, FOR ALL RC ZONES |
| | undefined |

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4/4