

DRY CONTACTS



State detection (on/off), event counting, counting time spent in a state.



DEPLOY MORE SIMPLY AND QUICKLY

- Global cellular compatibility (NB-IoT, LTE-M).
- Multi-platform integration facilitated by LwM2M and MQTT standards.
- Automated provisioning on the IoT platform using bootstrapping (LwM2M).
- Mobile application for parameter setting via NFC.
- 2 configurable digital inputs, reading 0/1 state (Dry Contact) and allowing connection to 2 independent sensors.

MEASURE AND ALERT ACCORDING TO YOUR NEEDS

- **Remotely supervise simple binary data such as open/close status:** door contact, motion detector, smoke detector, gas detector, alarms, etc.
- **Event counter:** increments the counter each time the state changes and records at the set frequency.
- **Time counter:** measures the time spent in an 'abnormal' state and records at the set frequency.
- **Customisable data transmission modes :**
 - Periodic transmission (state of dry contacts, number of events, time spent in a state).
 - Event-based transmission, for rapid detection of any anomaly (based on number of events and/or event duration).

OPERATE YOUR FLEET OVER THE LONG TERM WITH THE LWM2M

- Standardized and remote device management operations, individually or in batches: commands, configuration read/write, FOTA.



- Quick and easy application configuration, with NFC or remotely
- IP68 protection rating
- Battery-operated product

- Autonomy of over 15 years
- Data logging: optimised autonomy, local storage of 48 values per pulse input
- Designed and assembled in France



Monitor the condition of a smoke extraction hatch or a fire door.



Alerting to inadvertently open doors and windows.



Counting the time a refrigerated zone has been left open.

TECHNICAL SPECIFICATIONS



ARF8420ABA

Mechanical specifications

Weight	163 g (battery included)
Dimensions	200 x 63,5 x 34 mm
Enclosure	IP68, EMERGE™ PC 8731HH grey resin (casing), EMERGE™ PC 8430-15 transparent resin (sole)
Mounting	DIN Rail, Tube, Wall, Collar

Operating conditions

Operating temperature	-25°C / +70°C
Humidity	0 to 85% RH (non-condensing)

Device Power Supply

Battery	Dual Battery Pack Capacity: 8000 mAh
Expected Battery Life	For 24 transmissions per day, 2 digital inputs activated with default open state: >15 years on NB-IoT >15 years on LTE-M

Update

Applicative configuration	Setup via NFC, using the Adeunis mobile application: "IoT Configurator NB-IoT / LTE-M" on Android/iOS, or remotely.
Firmware	Application firmware and remote modem firmware upgrade (FOTA)

Connectivity

SIM card	Nano SIM 4FF Class C (1.8V)
Cellular standard	3GPP LTE Version 13
LPWAN networks	NB-IoT, LTE-Cat-M1
Protocols	LWM2M 1.1, MQTT (optional)

Features

	NB-IoT	LTE-Cat-M1
Frequency bands	B1, B2, B3, B4, B5, B8, B12, B13, B17, B19, B20, B25, B26, B28, B66	B1, B2, B3, B4, B5, B8, B12, B13, B14, B18, B19, B20, B25, B26, B28, B66
RF transmitting power	+23 dBm	+23 dBm
Sensibility	>-108 dBm -113 dBm typ	>-103 dBm -107 dBm typ

Regulations and certifications

Standard	Directive 2014/53/UE (RED)
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Digital input

Number of inputs	1 or 2 configurable digital inputs
Voltage	0-24 V
Equivalent input resistance	50 kΩ
Input frequency	< 50 Hz
High level/close input current consumption	33 μA
Low level/open input current consumption	0 μA



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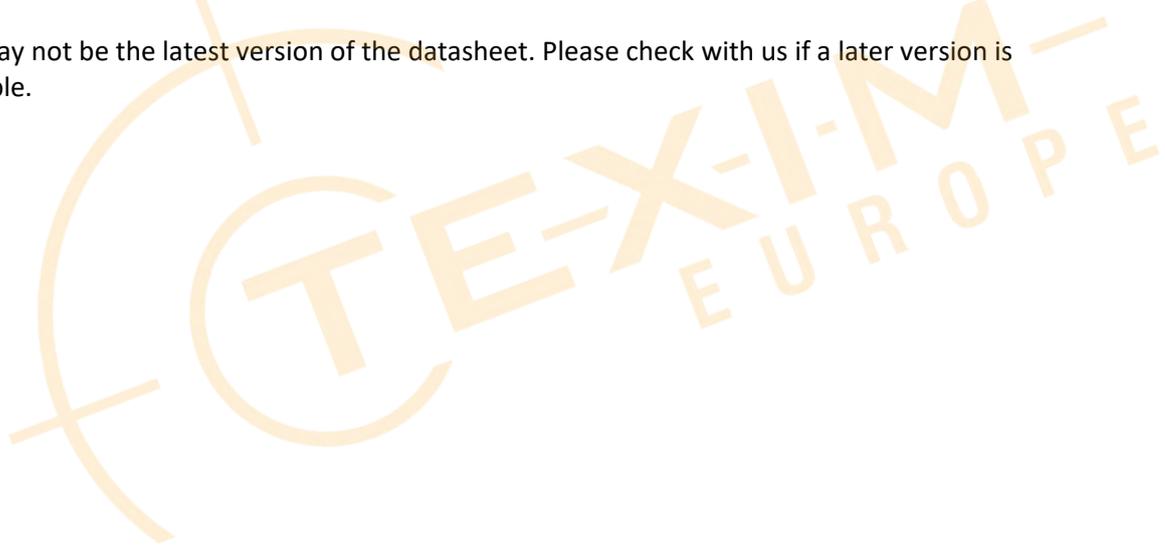
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time.

All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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