DRY CONTACTS

adeunis
IOT PRODUCTS & SOLUTIONS

NB-IoT   LTE-M

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.

MADE IN FRANCE

+
- Quick and easy application configuration, with NFC or remotly
- 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)
Conectivity	
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)

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