

Data Sheet

Aircom® - Advanced intrinsically safe radio communications

FEATURES

- Data monitoring of various instruments
- Transmit data globally to any control center
- Easy to install and configure
- Autonomous operation
- Transmission diameter 80 km
- Up to 10 years of battery life
- ATEX Zone 0 applications
- IP65 environmental protection

TYPICAL USES

- Large production facilities
- Remote controlling



SPECIFICATIONS

Case:	ABS
Aircom® Weight:	1,52 kg
Battery Weight:	0,19 kg
Aircom® Dimension:	H x W x D 476 mm x 116 mm x 85 mm
Battery Dimension:	H x D 83 mm x 51 mm
Ingress Protection:	IP65; optional IP68

BATTERY

Type:	3,6 V 19 Ah Lithium Thionyl Chloride
Auxiliary Power:	12 VDC 50 mA 0,6 W

COMMUNICATIONS / RADIO

LoRaWAN EU	868 MHz
LoRaWAN US	915 MHz

INPUTS / OUTPUTS

x2 or x5 Analogue Channels	x2 HART x2 or x5 4-20 mA Passive x2 4-20 mA Active x2 -10-10 V x2 PT100 3-Wire x2 PT100 4-Wire x2 PT1000 x2 Ohms x2 POT x2 mV
x4 Digital Input Channels	x4 Volt-Free x2 Voltage input x2 PRX NAMUR x2 Counter
x2 Digital Outputs	x2 20 mA @ 16.4 VDC
x2 Serial Comms Channels	RS485 or RS232

KEY BENEFITS

- Configuration via Mobile Bluetooth App
- No communications infrastructure costs via LoRaWAN
- 4 digital, 2 or 5 analogue and 2 serial inputs
- Global communication "Internet of Things" (IoT)
- Powers the connected instruments
- Data encryption for safe transmission
- Integrated I.S. barriers for each channel
- ARM micro processor controlled

APPROVALS

ATEX:	II 1G Exia IIC T4 Ga
Directives:	EN IEC 60079-0: 2018, EN 60079-11: 2012

MIN./MAX. TEMPERATURE LIMITS

VERSION	AMBIENT
Non-ATEX and ATEX	-20 °C to 60 °C (-4 °F to 150 °F)

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ORDERING CODE		EXAMPLE:	WTP03		EX	HD485
Model						
WTP03	Aircom®-Module		WTP03			
Hazardous area certificate options						
Ex	ATEX certification  II 1G Ex ia IIC T4 Ga (-20 ≤ Ta ≤ +60°C)					Ex
00	Safe area only					
Power / input & output options						
	Code:	A000	0D0000	AD485	AD232	HD485
Power option						
7-23 VDC Auxiliary Power Input		✓	✓	✓	✓	✓
3.6 V, 19 Ah Lithium Thionyl Chloride Replaceable Battery (when part of an ATEX system the battery fulfils the requirements of EN 50020:2002 “intrinsic safety” and is covered by the product ATEX certification)		✓	✓	✓	✓	✓
Digital inputs						
0-24 VDC Voltage Inputs x 2			✓	✓	✓	✓
Proximity Switch, NAMUR Type x 2			✓	✓	✓	✓
Volt-Free Digital Inputs x 4			✓	✓	✓	✓
Digital outputs						
20 mA @ 16,4 VDC Voltage Outputs x 5						✓
20 mA @ 16,4 VDC Voltage Outputs x 2		✓		✓	✓	
Analogue inputs						
4-20 mA Passive / HART® x 5						✓
4-20 mA Passive / HART® x 2		✓		✓	✓	
4-20 mA Active x 2		✓		✓	✓	✓
-10-10 V Input x 2		✓		✓	✓	✓
PT100 3-Wire x 2		✓		✓	✓	✓
PT100 4-Wire x 2		✓		✓	✓	✓
PT1000 x 2		✓		✓	✓	✓
Thermocouple Type J x 2		✓		✓	✓	✓
Thermocouple Type K x 2		✓		✓	✓	✓
0-10k Resistance Inputs x 2		✓		✓	✓	✓
0-10k Potentiometer Inputs x 2		✓		✓	✓	✓
0-1.5 V mV Inputs x 2		✓		✓	✓	✓
Data options						
RS485 channels x 2				✓		✓
RS232 channels x 2					✓	

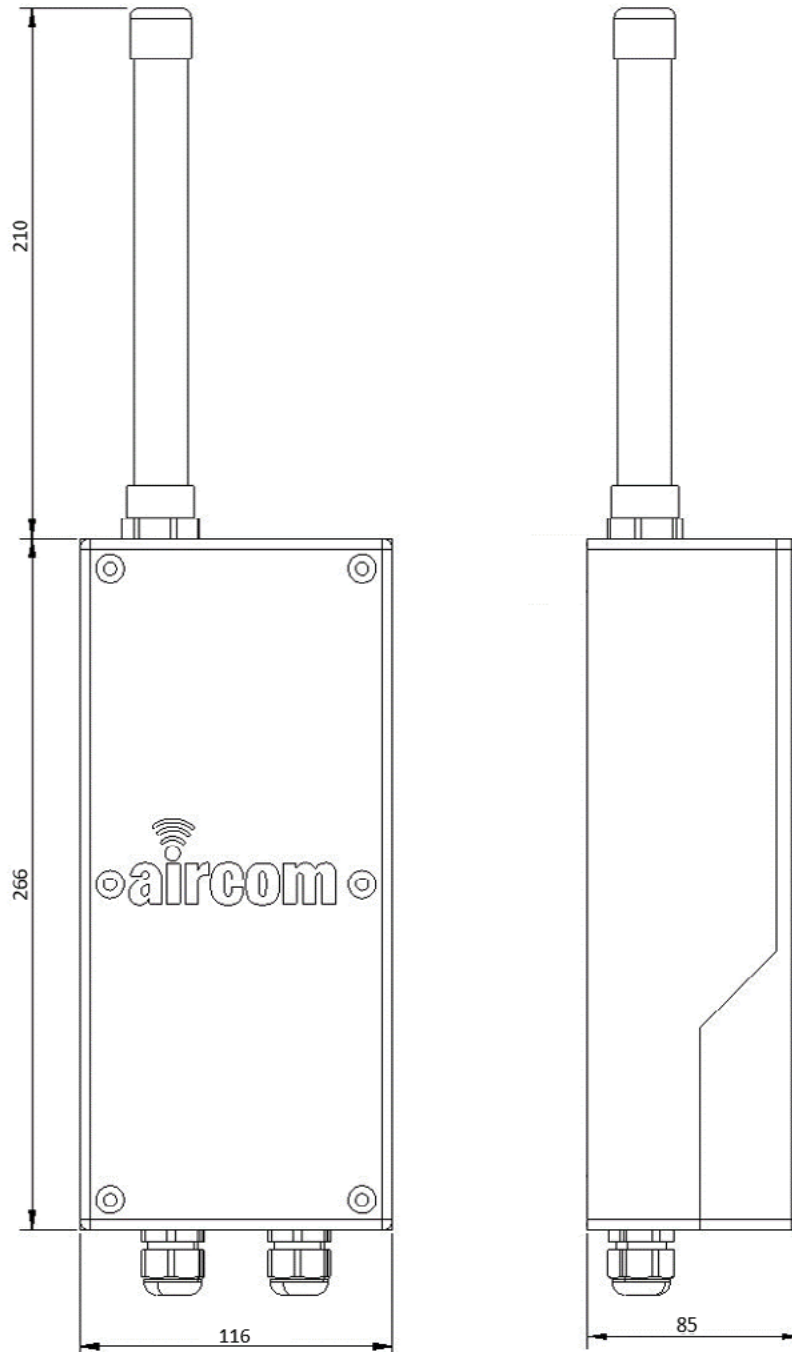
Note: Each input/output is typically 2 channels, e.g. 4-20mA Passive x 2 means two individual 4-20mA inputs. Volt-Free being the only exception as it is 4 individual inputs.



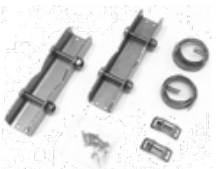
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DIMENSIONS IN MM [INCH]

For reference only, consult Ashcroft for specific dimensional drawings



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AIRCOM® ACCESSORIES

CODE	DESCRIPTION	
WTP03-BEx	Battery-ATEX	
WTP03-BSa	Battery-Non ATEX	
WTP03-Mwall	Wall Mount, includes: • x2 304SS wall brackets • x8 304SS thread forming screws	
WTP03-Mpost	Post Mount, includes: • x2 304SS post brackets • x4 304SS M6 machine screws & nyloc nuts • x2 304SS jubilee clips • x8 304SS thread forming screws	
WTP03-Tkit	Tool Kit & Case, includes: • x1 Handmade leather case • x1 WTP03-Tmag • x1 WTP03-Tterm	
WTP03-Tmag	Telescopic Magnet	
WTP03-Tterm	Terminal Tool	
	IP68 M20 Cable Gland	
	IP68 M20 Plug	

