



Aircom™ End Node

Aircom™ is a self-contained, battery-powered LoRaWAN™ device capable of collating data from various instruments. It acts as a datalogger or RTU for monitoring applications. With its powerful ARM processor, it is capable of custom control configurations for specific applications. It has been designed for hazardous environments and transmits data to any Command Centre globally. It's easy to install and configure with its Mobile Bluetooth App and can be left to operate without the need for human intervention for years.

Key Features:

- Wide range of I/O – Analog, Digital and Serial
- Secure Data (AES 128)
- Up to 10-year battery life – application dependent
- IP 68 enclosure
- Powers instruments with 10-16VDC
- Up to 10+ mile range – installation and topography dependent
- External power option
- ATEX Zone 0 IIC and Class I, Div I Groups A-D T4
- Configure via the Aircom mobile app on iOS or Android
- Integrated I.S. barriers for each channel



General	
Material	ABS
Aircom Weight	1.14kg
Battery Weight	0.19kg
Aircom Dimensions H x W x D (mm)	467 x 120 x 75
Battery Dimensions H x D (mm)	83 x 51
Ingress Protection	IP68, NEMA 4X
Permissible ambient temperatures	-20°C - 60°C / -4°F - 140°F
Approvals / Certification	
ATEX	II 1G Ex ia IICT4 Ga (-20 ≤ Ta ≤ +60°C)
US Hazardous Area	Class I Div I Grps A-D,T4 & Class I Zone 0 AEx ia IICT4 Ga (-20 ≤ Ta ≤ +60°C)
Canada Hazardous Area	Ex ia IICT4 Ga (-20 ≤ Ta ≤ +60°C)
Directives	EN IEC 60079-0: 2018, EN 60079-11: 2012, ISA/UL 60079-0, ISA/UL60079-11, CSA-C22.2 No ISA/UL 60079-0, CSA-C22.2 No ISA/UL60079-11, UL 61010-1, UL 61010-2-201, CAN/CSA C22.2 No. UL 61010-1, CAN/CSA C22.2 UL 61010-2-201

Power	
Battery	3.6V, 19Ah, Lithium Thionyl Chloride
Auxiliary Power	7-23VDC, 2.1W Max
Communications	
LoRaWAN EU	868MHz
LoRaWAN US	915MHz
LoRaWAN AS	923MHz
Inputs / Outputs	
x2 or x5 Analogue Channels	x2 HART, x2 or x5 4-20mA Passive , x2 4-20mA Active, x2 -10-10V, 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 or x5 Digital Outputs	x2 or x5 20mA @ 16.4VDC
x2 Serial Comms Channels	RS485 or RS232





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Part Code Builder

Example Code	WTP03	-	Ex	-	AD485	-	L868
Product Code							
Aircom Transmitter	WTP03						
Hazardous Area Certification							
Safe Area Only	00						
Hazardous Area	Ex						
Inputs & Outputs - See Power & I/O Options Table							
x2 AI, x4 DI, x2 Serial	AD485						
x2 AI, x4 DI, x2 Serial	AD232						
x5 AI / DO, x4 DI, x2 Serial	HD485						
Communications							
EU LoRaWAN 868 MHz	L868						
US LoRaWAN 915 MHz	L915						
AS LoRaWAN 923 MHz	L923						

Options	AD485	AD232	HD485
12-23VDC Auxiliary Power Input	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3.6V, 19Ah Lithium Thionyl Chloride Replaceable Battery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Inputs	<i>Max 4*</i>	<i>Max 4*</i>	<i>Max 4*</i>
0-24VDC Voltage Inputs	x2	x2	x2
Proximity Switch, NAMUR Type	x2	x2	x2
Volt-Free or Pulse Inputs	x2	x2	x2
Volt-Free Inputs	x2	x2	x2
Digital Outputs	<i>Max 2*</i>	<i>Max 2*</i>	<i>Max 5*</i>
20mA @ 16.4VDC Digital Outputs	x2	x2	x5
Analogue Inputs	<i>Max 2*</i>	<i>Max 2*</i>	<i>Max 5*</i>
4-20mA Passive	x2	x2	x5
Hart®	x2	x2	x2
4-20mA Active	x2	x2	x2
-10-10V Input	x2	x2	x2
PT100 3/4 Wire or PT1000	x2	x2	x2
Thermocouple Type J or K	x2	x2	x2
0-10k Resistance or Potentiometer Inputs	x2	x2	x2
0-1.5V mV Inputs	x2	x2	x2
Serial Options	<i>Max 2*</i>	<i>Max 2*</i>	<i>Max 2*</i>
RS485	x2	-	x2
RS232	-	x2	-





*Note: There is a maximum number of I/O that can be utilised for each variant. Example: AD485 has Max x2 Analogue Channels. Only 2 of the available analogue inputs can be used at one time such as x1 4-20mA and x1 PT100 at once or any other combination of two of the available input options.





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Accessories

Code	Description	
ZC-0003	Battery-ATEX	
ZC-0006	Wall Mount, includes: x2 304SS wall brackets x8 304SS thread forming screws	
ZC-0005	Post Mount, includes: x2 304SS post brackets x4 304SS M6 machine screws & nyloc nuts x2 304SS jubilee clips x8 304SS thread forming screws	
ZC-0009	Aircom Limiting Resistor	





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Dimensions

