



Aircom Mini™ End Node

The **Aircom Mini™** delivers the full power and functionality of the standard Aircom range in a compact package. Designed for applications where space is limited and only a few I/O points are required, the Aircom Mini™ is the ideal solution. Just like its big brother, Aircom Mini™ is a self-contained, battery-powered LoRaWAN™ device that seamlessly gathers data from various instruments - and can function as a data logger or RTU for monitoring applications. Despite its smaller size, the Aircom Mini™ is engineered to withstand harsh and hazardous (ATEX / Class I Div I) environments. It features the same user-friendly Bluetooth configuration app as its larger counterpart, now with added enhancements for an improved user experience.

Key Features:

Wide range of I/O – Analog, Digital

Up to 10-year battery life – application dependent

Up to 10+ mile range – installation and topography dependent

ATEX Zone 0 IIC and Class I, Div I Groups A-D T4
Integrated I.S. barriers for each channel

Secure Data (AES 128)

IP 68 enclosure

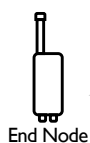
Powers instruments with 10-16VDC

Configure via the Aircom mobile app on iOS or Android



General	
Material	ABS
Aircom Weight	0.556 kg
Battery Weight	0.126 kg
Aircom Dimensions H x W x D (mm)	400 x 75 x 59
Battery Dimensions H x W x D (mm)	66 x 44.6 x 37.6
Ingress Protection	IP68, NEMA 4X
Permissible ambient temperatures	-20°C to 60°C / -4°F to 140°F
Approvals / Certification	
ATEX	II 1G Ex ia IIC T4 Ga (-20 ≤ Ta ≤ +60°C)
US Hazardous Area	Class I Div I Grps A-D, T4 & Class I Zone 0 AEx ia IIC T4 Ga (-20 ≤ Ta ≤ +60°C)
Canada Hazardous Area	Ex ia IIC T4 Ga (-20 ≤ Ta ≤ +60°C)
Directives	EN IEC 60079-0: 2018, EN 60079-11: 2012, ISA/UL 60079-0, ISA/UL 60079-11, CSA-C22.2 No ISA/UL 60079-0, CSA-C22.2 No ISA/UL 60079-11, 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
Communications	
LoRaWAN EU	868-870MHz
LoRaWAN US	902-928MHz
LoRaWAN AU	915-928MHz
LoRaWAN AS1	920-923MHz
LoRaWAN AS2	923-925MHz
LoRaWAN IN865	865-867MHz
Inputs / Outputs	
x3 Analogue Channels	x2 4-20mA passive or x2 4-20mA Active or x2 HART or x2 3-wire 4-20mA and x1 PT100 3-wire or 4-wire or Thermocouple or Resistance
x2 Digital Input Channels	x2 Volt-Free Contact, x2 Voltage input, x2 Pulse
x2 Digital Outputs	x2 120mA @ 16.4VDC



End Node



Gateway



Server

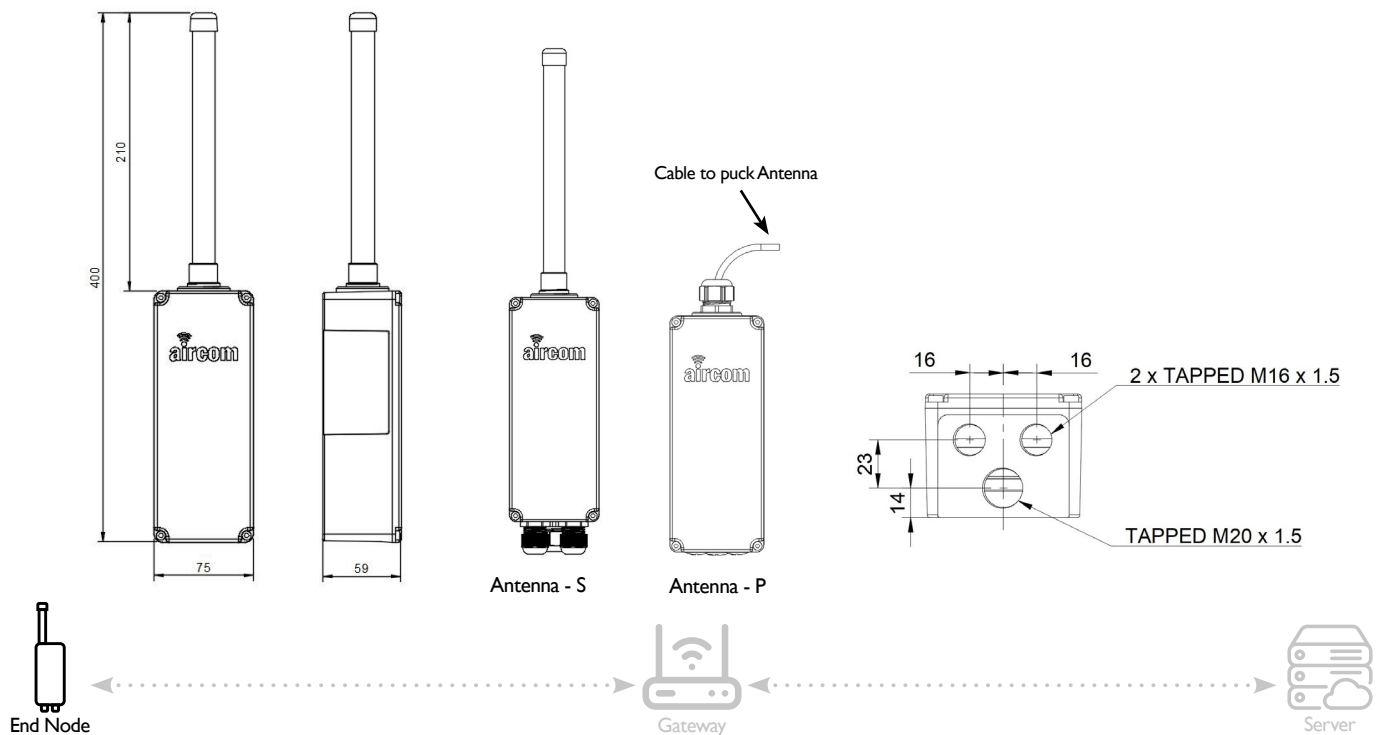


Aircom Mini™ End Node

Part Code Builder

Example Code	WTP03	-	Ex	-	LDA00	-	EU868	-	S
Product Code									
Aircom End Node	WTP03								
Hazardous Area Certification									
Safe Area Only	00								
Hazardous Area	Ex								
Inputs & Outputs - See Power & I/O Options Table									
x3 AI, + HART, x2 DO, x2 DI	LD000								
x3 AI, x2 DO, x2 DI	LDA00								
Communications									
LoRaWAN EU868-870MHz	EU868								
LoRaWAN US902-928MHz	US915								
LoRaWAN AU915-928MHz	AU915								
LoRaWAN AS920-923MHz	AS1								
LoRaWAN AS923-925MHz	AS2								
LoRaWAN 865-867MHz	IN865								
Antenna									
Standard External Fixed	S								
Puck Antenna	P								

Dimensions





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Power and I/O Options

Options	LD000	LDA00
3.6V, 19Ah Lithium Thionyl Chloride Replaceable Battery	☒	☒
Digital Inputs	Max 2*	Max 2*
0-24VDC Voltage Inputs	x2	x2
Pulse Inputs	x2	x2
Volt-Free Inputs	x2	x2
Digital Outputs	Max 2*	Max 2*
120mA @ 16.4VDC	x2	x2
Analogue Inputs	Max 3*	Max 3*
4-20mA 2-wire Passive	x2	x2
HART 2-wire Passive	x2	-
4-20mA 2-wire Active	x2	x2
4-20mA 3-wire Passive	x2	x2
PT100 3 or 4-wire	x1	x1
Thermocouple Type J or K	x1	x1
0-10k Resistance or Potentiometer Inputs	x1	x1

***Note:** There is a maximum number of I/O that can be utilised for each variant. **Example:** LD000 has Max x2 Analogue Channels. Only 3 of the available analogue inputs can be used at one time such as x2 4-20mA and x1 PT100 at once or any other combination of the input options.

Accessories

Code	Description	
ZC-0011	Mini Battery-ATEX	
ZC-0017	Aircom Mini Wall Mount Bracket	
ZC-0018	Aircom Mini Post Mount Bracket	

