



PRODUCT SPECIFICATIONS



Base station

Identification:	airINSITE Base station
Part number:	ZS1088920 Base station + Case ZS1088932 Base station only
Function:	Handles data to / from airINSITE data loggers and www.air-insite.com
IP rating:	IP20
Size:	Logger (W x H x D): 98 x 203.2 x 34.8mm Polypropylene case (W x H x D): 357 x 305 x 80mm
Warranty:	1 year return to point of sale



Data Logger current / volts

Identification:	airINSITE Logger, current & volts
Part number:	ZS1088926
Function:	Precision data logging
A / D resolution:	16 bit
Battery life:	2 calendar years or more
Bluetooth:	2.1 + EDR (enhanced data rate)
Operating temp:	0°C ~ +55°C
Power:	Four AA lithium primary cells, Li/SOCl ₂ , 3.6V, 2700mAh batteries
RTC:	Precision real time clock (temperature compensated crystal) Maximum deviation: 0.4s / day
Sample capacity:	More than 1.4 million samples (16 days continuous logging or more)
Sample frequency:	1 second (fixed resolution)
Software:	Pre-programmed application software
<u>Current sensor:</u>	
AC voltage:	Range: 100 V to 700 V Accuracy: 1%
AC Current:	Range: 10 Amp ~ 800Amp Accuracy: 1%
Operating temp:	-10°C ~ +50°C
Safety rating:	CAT III 600V
Volt measurement and test lead set:	
Measuring device:	Alligator clip set (2) Red & black pair of small, insulated, nickel plate jaws Blunt tip grabs round screw heads up to 9.5mm CAT IV 600V, CAT III 1000 V, 10 A rating, UL listed
Test lead set:	Red & black with safety shrouded, standard diameter banana plugs Right angle connector on one end and straight connector on the other Reinforced strain relief 1.5metre silicone-insulated wire resists heat & cold CAT IV 600V, CAT III 1000 V, 10A rating, UL listed
Combined:	Polypropylene case, moulded cushion insert
External protection:	
IP rating:	Logger: IP40



Size:

Logger (W x H x D): 98 x 203.2 x 34.8mm

Sensor (W x H x D): 111 x 216 x 45mm

Polypropylene case (W x H x D): 357 x 305 x 80mm

Warranty:

1 year return to point of sale



Data logger – Pressure

Identification:	airINSITE Logger, pressure, 0 – 16 Bar
Part number:	ZS1088925
Function:	Precision data logging
<u>Logger:</u>	
A / D resolution:	16 bit
Battery life:	2 calendar years or more
Bluetooth:	2.1 + EDR (enhanced data rate)
Operating temp:	0°C ~ +55°C
Power:	Four AA lithium primary cells, Li/SOCl ₂ , 3.6V, 2700mAh batteries
RTC:	Precision real time clock (temperature compensated crystal) Maximum deviation: 0.4s / day
Sample capacity:	More than 1.4 million samples (16 days continuous logging or more)
Sample frequency:	1 second (fixed resolution)
Software:	Pre-programmed application software
<u>Sensor:</u>	
Output:	10 – 90% ratio metric, 5VDC +/-5%
Pressure Conn:	G ¼ sealed at back, DIN 3852 form E
Pressure mode:	Relative
Pressure range:	0 – 16 BAR
Sealing material:	Fluoro elastomer
Sensor materials:	Sensor: Ceramic Al ₂ O ₃ (96%)
Pressure Conn:	Stainless steel 1.4305 / AISI 303
Sensor response:	< 5ms
Temperature range:	-15° ~ +80°C
Combined:	
External protection:	Polypropylene case, moulded cushion insert
IP rating:	Logger: IP40 Sensor: IP65
Size:	Logger (W x H x D): 98 x 203.2 x 34.8mm Sensor (Diameter x H): 36 x 82.5 Polypropylene case (W x H x D): 357 x 305 x 80mm
Warranty:	1 year return to point of sale



Data logger – Temperature:

Identification: airINSITE Logger, temperature

Part number: ZS1088924

Function: Precision data logging

Logger:

A / D resolution: 16 bit

Battery life: 2 calendar years or more

Bluetooth: 2.1 + EDR (enhanced data rate)

Operating temp: 0°C ~ +55°C

Power: Four AA lithium primary cells, Li/SOCl₂, 3.6V, 2700mAh batteries

RTC: Precision real time clock (temperature compensated crystal)
Maximum deviation: 0.4s / day

Sample capacity: More than 1.4 million samples (16 days continuous logging or more)

Sample frequency: 1 second (fixed resolution)

Software: Pre-programmed application software

Sensor:

Working pressure: 16bar, depending on medium & temperature

Measuring range: -50° ~ +200°C

Sensor body: Steel, corrosion protected

Combined:

External protection: Polypropylene case, moulded cushion insert

IP rating: Logger: IP40

Sensor:

Size: Logger (W x H x D): 98 x 203.2 x 34.8mm
Sensor (Diameter x H): 6mm x 40mm
Polypropylene case (W x H x D): 357 x 305 x 80mm

Warranty: 1 year return to point of sale



Data logger – Flow

Identification: airINSITE Logger, Flow

Part number: ZS1088923

Function: Precision data logging

Logger:

A / D resolution: 16 bit

Power supply: 110 – 240v AC

Bluetooth: 2.1 + EDR (enhanced data rate)

RTC: Precision real time clock (temperature compensated crystal)
Maximum deviation: 0.4s / day

Sample capacity: More than 1.4 million samples (16 days continuous logging or more)

Sample frequency: 1 second (fixed resolution)

Software: Pre-programmed application software

Sensor:

Accuracy: ±3% of measured value

Fitting: G½"

Max Flow: 92.7 m/sec

Max working press: 50 bar g (750 psi g)

Measurement: DIN 1945, ISO 1217 at 20°C and 1000mbar a

Probe Stainless Steel 1, 4301

Sensor type: Calorimetric; Pt45, Pt1000

Sensor medium: Air, Gas

Sensor calibration: Di=53.1; 0-10m3/min

Temperature range: -30°C to +80°C



Measure range:

Inner pipe diameter	Range (m ³ /min)	Inner pipe diameter	Range (m ³ /min)
1" 25mm	2.04	1½" 39.3mm	5.34
2" 53.1mm	10.0	2½" 65mm	15.2
3" 80mm	23.2	4" 100mm	36.4
5" 125mm	57.1	6" 150mm	82.4
8" 200mm	147	10" 250mm	230
12" 300mm	330		

Combined:

External protection:	Polypropylene case, moulded cushion insert
IP rating:	Logger: IP40 Sensor: IP65
Size:	Logger (W x H x D): 98 x 203.2 x 34.8mm Sensor (Diameter x H): 36 x 82.5 Polypropylene case (W x H x D): 357 x 305 x 80mm
Warranty:	1 year return to point of sale



Data logger – Moisture, Dew Point

Identification:	airINSITE Logger, Moisture Dew point
Part number:	ZS1088922
Function:	Precision data logging
<u>Logger:</u>	
A / D resolution:	16 bit
Power supply:	110 – 240v AC
Bluetooth:	2.1 + EDR (enhanced data rate)
Operating temp:	0°C ~ +55°C
RTC:	Precision real time clock (temperature compensated crystal) Maximum deviation: 0.4s / day
Sample capacity:	More than 1.4 million samples (16 days continuous logging or more)
Sample frequency:	1 second (fixed resolution)
Software:	Pre-programmed application software
<u>Sensor:</u>	
Ambient conditions:	0°C ~ +50°C
Accuracy:	2°C dew point
Process Conn:	G½" (ISO 228/1)
Measure range:	-80°C ~ +20°C dew point 0 ~ 100% relative humidity -30°C ~ +70°C
Pressure range:	-1 ~ +16 bar
Response time:	> 30 sec (descending), >10 sec (ascending)
Sensor casing:	Zinc, alloy, PC & ABS
Combined:	
External protection:	Polypropylene case, moulded cushion insert
IP rating:	Logger: IP40 Sensor: IP65
Size:	Logger (W x H x D): 98 x 203.2 x 34.8mm Sensor (Diameter x H): 30mm x 109mm Polypropylene case (W x H x D): 357 x 305 x 80mm
Warranty:	1 year return to point of sale



Data logger – 4-20mA

Identification:	airINSITE Logger, 4 – 20mA
Part number:	ZS1088921
Function:	Precision data logging
A / D resolution:	16 bit
Power supply:	110 – 240v AC
Bluetooth:	2.1 + EDR (enhanced data rate)
Operating temp:	0°C ~ +55°C
RTC:	Precision real time clock (temperature compensated crystal) Maximum deviation: 0.4s / day
Sample capacity:	More than 1.4 million samples (16 days continuous logging or more)
Sample frequency:	1 second (fixed resolution)
Software:	Pre-programmed application software
Analogue input:	4 – 20mA (1)
External protection:	Polypropylene case, moulded cushion insert
IP rating:	Logger: IP40 Sensor: IP65
Size:	Logger (W x H x D): 98 x 203.2 x 34.8mm Polypropylene case (W x H x D): 357 x 305 x 80mm
Warranty:	1 year return to point of sale
