Product data sheet for Sensor elements

- Temperature Sensors
  - New Page
- Air flow sensors
  - Air Velocity Sensor AVS
  - Air Flow Sensor AFD
- Internal Sensor Modules for Ambient Air Quality Monitor
  - AMBIENT TEMPERTURE AND HUMIDITY SENSOR MODULE -ATH
  - SOUND LEVEL SENSOR MBRTU-SL
  - OPTICAL PARTICLE COUNTING SENSOR MBRTU-OPC
  - OPTICAL PARTICLE PROFILER MAX-OPC-N3
  - HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-O3
  - HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-NO2
  - HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-CO
  - HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-SO2
  - HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-CO2
- Ultrasonic Water Meter UWM
- Bulk Ultrasonic Water Meter BUW
- Infrared Fever Scanner IFS-HQ1
- pH Sensors
  - Process Flat pH Sensor H087
  - Process pH Sensor PH12
- WIND SPEED SENSOR WSP
- WIND DIRECTION SENSOR WDR

Temperature Sensors

New Page

Air flow sensors

Air Velocity Sensor AVS

SKU: AVS

Doc No: AVS-DS-EN-10

Introduction

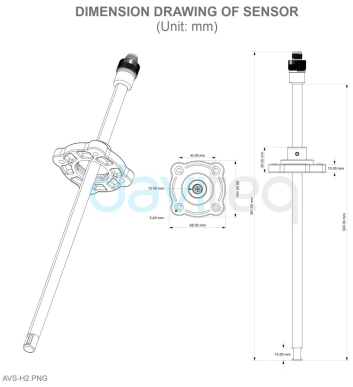
AVS is the Air Velocity Sensor with DULP output with M12-Male connector, compatible with all kind of Wireless sensor node from Daviteq that support DULP signal.

- No moving parts;
- Excellent repeatability (1% FS);
- “Solid state” sensing core (no surface cavity or fragile membrane) resistant to clogging and pressure shock

Typical applications

- Data Center Thermal Management;
- HVAC VAV Damper Control;
- HVAC Filter Monitoring.





Specification

Technology	thermal mass flow measurement
Velocity range (m/s)	0 .. 15
Accuracy	5%
Repeatability	1%
Resolution	12 bit
Response Time	125 mSec
Output	DULP
Supply	3.3VDC
Operating temperature and humidity	-25 .. + 85 oC, 0 .. 100% RH (non condensing)
Connector	M12-Male 4 pin
Net Weight	max 500g

Ordering Code

Item code	Descriptions
AVS-15-P300	AIR VELOCITY SENSOR, DULP OUTPUT, MAX 15M/S WITH 300MM LENGTH SLIDING PROBE, FLANGE, M12-MALE CONNECTOR
AVS-15-200	DULP TYPE AIR VELOCITY SENSOR, MAX 15M/S WITH 200MM CORRUGATED CABLE, M12-MALE CONNECTOR

⚠ Link for full datasheet:

⚠ Link for manual:

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Air Flow Sensor AFD

SKU: AFD

Doc No: AFD-DS-EN-10

Introduction

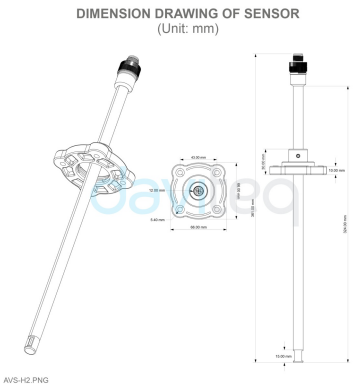
AFD is the Air, Gas Velocity Sensor with DULP output with M12-Male connector, compatible with all kinds of Wireless sensor nodes from Daviteq that support DULP signal, for example, WS433-M12F, WSSFC-M12F, WSLRW-M12F

- No moving parts;
- Excellent repeatability (2% FS);
- Can be used for "Wet" gas;
- Adjustable stem length to suit different pipe or duct sizes

Typical applications

- Data Center Thermal Management;
- HVAC VAV Damper Control;
- HVAC Filter Monitoring
- Using for measuring the flow of Air, Argon, CO2, Nitrogen, Oxygen





Specification

Technology	Differential Pressure
Fluid to measure	Air, Nitrogen, Oxygen, Argon, CO2
Velocity range (m/s)	4-29 (for Air)
Velocity accuracy (m/s)	+/- 0.5
Max Static Pressure (barg)	Continuous 0.44
Burst pressure (barg)	0.67
Sensor probe dimension	12mm diameter, 200mm length
Process connection	Sliding proprietary flange, come with Gasket
Output	DULP
Connector	M12-Male 4 pin

Working temperature (oC)	-40 .. + 85
Working Humidity (%RH)	0-95, non-condensed
Net Weight	max 500g

Ordering Code

Item code	Descriptions
AFD-0200	AIR FLOW SENSOR, DULP OUTPUT, 4-29M/S WITH 200MM LENGTH SLIDING PROBE, FLANGE, M12-MALE CONNECTOR
AFD-0500	AIR FLOW SENSOR, DULP OUTPUT, 4-29M/S WITH 500MM LENGTH SLIDING PROBE, FLANGE, M12-MALE CONNECTOR

⚠ Link for full datasheet:

⚠ Link for manual:

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Internal Sensor Modules for Ambient Air Quality Monitor

These sensor modules are used for Ambient Air Quality Monitor like MAQM...

AMBIENT TEMPERTURE AND HUMIDITY SENSOR MODULE -ATH

Item code: MBRTU-ATH-11IR

Description: Internal sensor module for ambient temperature and humidity, Modbus output.

Used for: MAQM

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Sensor	Digital type, factory calibrated, outputs both Humidity & Temperature values
Humidity measuring range & accuracy	0 .. 100 %RH, +/- 3.0% RH (+/- 1.5%RH for ATH-15 version)
Humidity resolution	0.1%
Temperature measuring range & accuracy	-40 .. + 85 oC, +/- 0.5 oC (+/- 0.1 oC for ATH-15 version)
Temperature resolution	0.1 oC
Sensor Filter	20um Alloy sintered filter
Accessories	Rain-guard for outdoor installation
Power supply	9..36VDC, max 30mA

SOUND LEVEL SENSOR MBRTU-SL

Item code: MBRTU-SL-01

Description: Internal Sensor module for Sound level, Modbus output.

Used for: MAQM and MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Sensor	Capacitive Microphone
Measuring range	30-130 dB(A)
Frequency range	20 - 12,500 Hz
Resolution	0.1 dB(A)
Accuracy	+/- 0.5 dB(A) at 94 dB(A) and 1 KHz
Working temperature	-20 .. + 60 oC
Working humidity	0 - 80% RH
Power supply	9..36VDC, max 30mA

OPTICAL PARTICLE COUNTING SENSOR MBRTU-OPC

Item code: MBRTU-OPC-02I

Description: Internal Sensor module for measuring outdoor PM1.0, PM2.5, and PM10; Modbus output.

Used for: MAQM

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	Laser light scattered method for PM1.0, PM2.5 and PM10
Particle range	0.3 to 12.4 um
Detection limit (PM10)	0.01 ug/m3 to 1500 mg/m3
Resolution	0.01 ug/m3
Accuracy	+/- 10% of Reading value
Sample flowrate	240 mL/min
Laser Classification	Class 1
Power supply	9..36VDC, max 30mA

OPTICAL PARTICLE PROFILER MAX-OPC-N3

Item code: MAX-OPC-N3

Description: Internal Sensor module for measuring outdoor PM1.0, PM2.5, and PM10; Modbus output.

Used for: MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	Laser light scattered method for PM1.0, PM2.5 and PM10
Particle range	0.3 to 40 um
Detection limit (PM1)	0.01 ug/m3 to 200 ug/m3
Detection limit (PM2.5)	0.01 ug/m3 to 2000 ug/m3
Detection limit (PM10)	0.01 ug/m3 to 2000 ug/m3
Resolution	0.01 ug/m3
Accuracy	+/- 10% of Reading value
Sample flowrate	5.5 L/min
Working Temperature	-10 .. + 50 oC
Working Humidity	0..95% RH non-condensing, continuous
Laser Classification	Class 1
Power supply	9..36VDC, max 30mA

HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-O3

Item code: MAX-O3-C5

Description: Internal Sensor module for measuring Ozone gas.

Used for: MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	Electro-chemical
Measurement range	0-5 ppm
Overload	50 ppm
Resolution	0.001 ppm
Lower Detectable Limit	0.001 ppm
Accuracy	+/- 2% of Reading value
Linearity	< 0.1% of Full scale
Response Time (T80)	< 60s
Operating Pressure	Atmospheric ± 10%
Working Temperature	-40 .. + 50 oC
Working Humidity	15..90% RH non-condensing, continuous
Sensor Life Time	2 years in clean air
Drift in Air	< 2 % signal loss per month
Power supply	9..36VDC, max 30mA

CROSS SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Concentration [ppm]	Reading [ppm]
C_2H_4	100	0
CH_2O	7	0
Cl_2	5	4
CO	100	0
Ethanol (C_2H_5OH)	60	0
H_2	100	0
H_2S	20	< -20
HCl	20	0
NH_3	80	0
NO	50	0
NO_2	5	~ 5
SO_2	5	0

Important Application Notes: NO readily forms NO2 in the presence of O2.

HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-NO2

Item code: MAX-NO2-C20

Description: Internal Sensor module for measuring NO2 gas.

Used for: MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	Electro-chemical
Measurement range	0-20 ppm
Overload	200 ppm
Resolution	0.001 ppm
Lower Detectable Limit	0.001 ppm
Accuracy	+/- 2% of Reading value
Linearity	< 0.1% of Full scale
Response Time (T90)	< 60s
Operating Pressure	Atmospheric ± 10%
Working Temperature	-40 .. + 50 oC
Working Humidity	15..90% RH non-condensing, continuous
Sensor Life Time	2 years in clean air
Drift in Air	< 2 % signal loss per month
Power supply	9..36VDC, max 30mA

CROSS SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Concentration [ppm]	Reading [ppm]
C_2H_4	100	0
CH_2O	7	0
Cl_2	20	15
CO	100	0
Ethanol (C_2H_5OH)	60	0
H_2	100	0
H_2S	20	< -20
HCl	20	0
NH_3	80	0
NO	50	0
O_3	1	1
SO_2	5	0

Important Application Notes:

HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-CO

Item code: MAX-CO-C1000

Description: Internal Sensor module for measuring CO gas.

Used for: MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	Electro-chemical
Measurement range	0-1000 ppm
Overload	2000 ppm
Resolution	0.001 ppm
Lower Detectable Limit	0.04 ppm
Accuracy	+/- 2% of Reading value
Linearity	< 0.1% of Full scale
Response Time (T90)	< 35s
Operating Pressure	Atmospheric ± 10%
Working Temperature	-40 .. + 50 oC
Working Humidity	15..90% RH non-condensing, continuous
Sensor Life Time	3 years in clean air
Drift in Air	< 2 % signal loss per month
Power supply	9..36VDC, max 30mA

CROSS SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Concentration [ppm]	Reading [ppm]
C_2H_4	10	14
CH_2O	5	15
Cl_2	20	-11
H_2	400	< 200
H_2S	20	60
NO	50	13
NO_2	100	-64
O_3	1	~ -1
SO_2	100	78

Important Application Notes:

HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-SO2

Item code: MAX-SO2-C20

Description: Internal Sensor module for measuring SO2 gas.

Used for: MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	Electro-chemical
Measurement range	0-20 ppm
Overload	100 ppm
Resolution	0.001 ppm
Lower Detectable Limit	0.009 ppm
Accuracy	+/- 2% of Reading value
Linearity	< 0.1% of Full scale
Response Time (T90)	< 15s
Operating Pressure	Atmospheric ± 10%
Working Temperature	-20 .. + 50 oC
Working Humidity	15..90% RH non-condensing, continuous
Sensor Life Time	2 years in clean air
Drift in Air	< 2 % signal loss per month
Power supply	9..36VDC, max 30mA

CROSS SENSITIVITY DATA

The table below does not claim to be complete. Interfering gases should not be used for calibration.

Interfering Gas	Concentration [ppm]	Reading [ppm]
CO	100	< 1
H_2	100	1
H_2S	20	~ 17
NO	100	0
NO_2	100	-125

Important Application Notes:

HIGH PERFORMANCE GAS MEASUREMENT MODULE MAX-CO2

Item code: MAX-CO2-LP5000

Description: Internal Sensor module for measuring CO2 gas.

Used for: MAQM-MAX

SENSOR SPECIFICATION

MEASURING SPECIFICATION	
Measuring technology	NDIR
Measurement range	0-5000 ppm
Overload	100 %
Resolution	1 ppm
Lower Detectable Limit	10 ppm
Accuracy	+/- 30 ppm + 3% of reading
Linearity	< 0.1% of Full scale
Response Time (T90)	< 30s
Operating Pressure	500 mbar to 2 bar absolute
Working Temperature	0 .. + 50 oC
Working Humidity	0..95% RH non-condensing, continuous
Sensor Life Time	10 years in clean air
Pressure Dependence	0.14% signal per mbar deviation from 1013 mbar, 950-1050mba
Power supply	9..36VDC, max 30mA

Ultrasonic Water Meter UWM

SKU: UWM

Doc No: UWM-DS-EN-10

Introduction

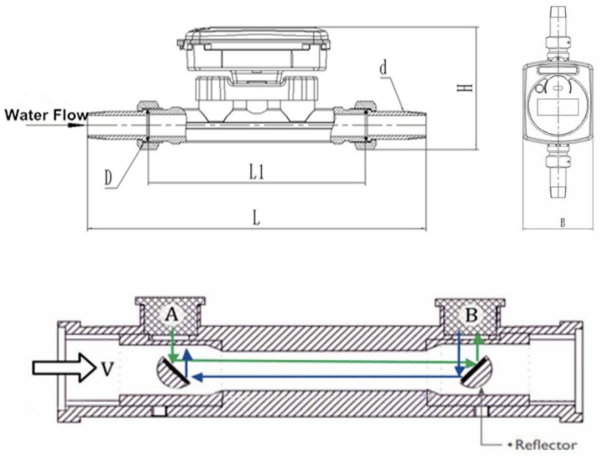
UWM Ultrasonic water meter is a new type of water meter that detects the time difference caused by the change of velocity when the ultrasonic beam propagates in the opposite direction of the water, and analyzes and processes the flow rate of water to further calculate the flow of water..



Features

- No mechanical movable parts, impurities in water can’t be affected, long service life.
- Wide measurement range. Very small flow can be measured.
- Various alarm functions: Battery voltage can alarm, empty tubes, or pipes that are not full of water, transducer fault alarm, and more.
- Low-power design and the use of high-energy batteries can work for 8 years and more.
- The communication interface is LoRaWAN or RS485 ModbusRTU.

Dimension Drawings



Dimensions

Nominal Diameter	Length L	Length L1	Width B	Height H1	Connecting Thread	
mm					d	D
15	258	165	95	95	R1/2B	G3/4B
20	299	195	95	100	R3/4	G1B
25	345	225	95	108	R1	G1 1/4B
32	305	180	95	120	R1 1/4	G1 1/2B
40	330	200	95	125	R1 1/2	G2B

Specification

Item	Unit	Details				
Nominal diameter	mm	15	20	25	32	40
Q3/Q1	R200					
Overlolad flow(Q4)	m^3/h	3.125	5	7.875	12.5	20
Nominal flow(Q3)	m^3/h	2.5	4	6.3	10	16
Transitional flow(Q2)	m^3/h	0.02	0.032	0.05	0.08	0.128
Minimum flow(Q1)	m^3/h	0.013	0.02	0.032	0.05	0.08
Accuracy class	Class 2					
Battery life	8years					
Temperature class	T30/T50					
Pressure class	≤0.063Mpa					
Pressure loss class	ΔP63					
Flow prefile sensitivity class	U10/D5					
Environmental class	Class B,M1					
Electromagnetic environment class	E1					
Working pressure	1.6Mpa					
Max flow indication	999999.9m3					
Installation position	Horizontal or Vertical					

LoRaWAN Specification

Data rate	250bps .. 5470bps
Antenna	Internal Antenna 2.67 dbi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930Mhz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN class A
Data sending modes	interval time, alarm occurred and manually triggering by magnetic key
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	1oC..+65oC
Housing	Polycarbonate plastic, IP68

Ordering codes

Item code	**Descriptions**
UWM-15-LRW-8-01	Ultrasonic Water Meter DN15 with LoRaWAN connectivity, IP68, 860-870 Mhz for EU868, IN865, RU864
UWM-15-LRW-9-01	Ultrasonic Water Meter DN15 with LoRaWAN connectivity, IP68, 900-930 Mhz for KR920, AS923, AU915, US915

** Replace 15 by 20, 25, 32, 40 for different sizes*

⚠ Link for full datasheet:

⚠ Link for manual:

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Bulk Ultrasonic Water Meter BUW

SKU: BUW

Doc No: BUW-DS-EN-10

Introduction

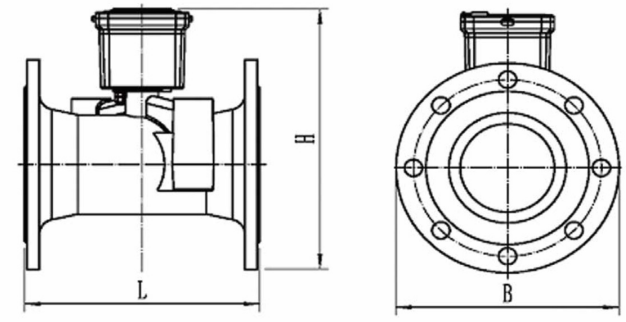
BUW Bulk Ultrasonic water meter comprises the quality temperature sensor, the flow sensor, and a flow computer. The temperature sensor measures the temperature of the water and the flow sensor to measure the volume of water that flows through the pipelines by the transit time difference. The two data are sent to the flow computer after being collected, the consumption water quantity is worked out, stored, and indicated on the LCD finally.



Features

- Ultrasonic water meter's intelligent measuring instrument consists of the temperature sensor, flow sensors, and flow computer;
- Could provide important application and data for many applications in the pipeline;
- Ultrasonic water meter is suitable for application environments requiring high range ratio(Q3/Q1)and forwards and reverse metering;
- The flow computer used sensor and through the time difference to collect temperature differences and sound waves to complete accurate measurement of water flow;
- And can provide important applications and data for many applications.

Dimension Drawings



Dimensions

Nominal Diameter	Length L	Width B	Hight H	Flange Connection		
mm				Flange Diameter	Bolt Ciecle Diameter	Bolt Size-M
DN50	200	170	215	170	125	4-M16
DN65	200	185	220	185	145	4-M16
DN80	225	200	235	200	160	8-M16
DN100	250	220	255	220	180	8-M16
DN125	250	250	285	250	210	8-M16
DN150	300	285	335	285	240	8-M20
DN200	350	340	405	340	295	12-M20
DN250	450	405	470	405	355	12-M24
DN300	500	460	525	460	410	12-M24

Specification

Nominal diameter(mm)	50	65	80	100	125	150	200	250	300
Max flow Q4(m3/h)	50	78.75	78.75	125	200	312.5	500	787.5	1250
Nominal flow Q3(m3/h)	40	63	63	100	160	250	400	630	1000
Transitional flow Q2(m3/h)	0.16	0.756	0.252	0.4	0.64	1	1.6	2.52	4
Min flow Q1(m3/h)	0.1	0.158	0.158	0.25	0.4	0.625	1	1.575	2.5
Protection class	IP68								
Measuring range	Q3/Q1 R250/R400								
Accuracy class	Class 2								
Battery life	8 years								
Temperature class	T50								
Pressure loss class	ΔP63								
Flow prefile sensitivity class	U10/D5								
Environmental class	Class B,M1								
Electromagnetic environment class	E1								
Working pressure	1.6Mpa								
Max flow indication(m3)	9999999.9								
Reverse flow indication(m3)	9999999.9								
Installation position	Horizontal or Vertical								

NOTE: The flange dimension conforms to ISO7005-1:1988 standard. Flange standard can be customized. Order for products of special requirements is also accepted.

LoRaWAN Specification

Data rate	250bps .. 5470bps
Antenna	Internal Antenna 2.67 dbi
Battery	02 x AA size 1.5VDC, battery not included
RF Frequency and Power	860..930Mhz, +14 .. +20 dBm, configurable for zones: EU868, IN865, RU864, KR920, AS923, AU915, US915
Protocol	LoRaWAN class A
Data sending modes	interval time, alarm occurred and manually triggering by magnetic key
RF Module complies to	ETSI EN 300 220, EN 303 204 (Europe) FCC CFR47 Part15 (US), ARIB STD-T108 (Japan)
Working temperature	1oC..+65oC
Housing	Polycarbonate plastic, IP68

Ordering codes

Item code	**Descriptions**
BUW-050-LRW-8-01	Bulk Ultrasonic Water Meter DN50 with LoRaWAN connectivity, IP68, 860-870 Mhz for EU868, IN865, RU864
BUW-050-LRW-9-01	Bulk Ultrasonic Water Meter DN50 with LoRaWAN connectivity, IP68, 900-930 Mhz for KR920, AS923, AU915, US915
** Replace 050 by 065 .. 300 for different sizes*	

⚠ Link for full datasheet:

⚠ Link for manual:

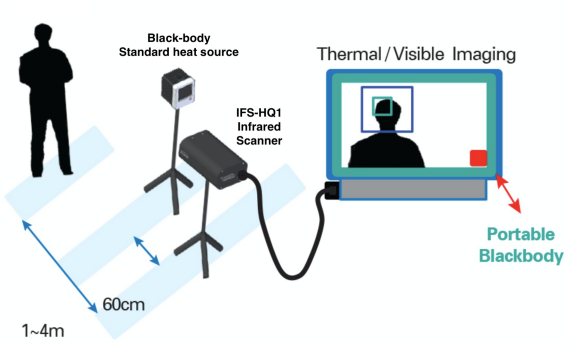
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Infrared Fever Scanner IFS-HQ1

SKU: IFS-HQ1

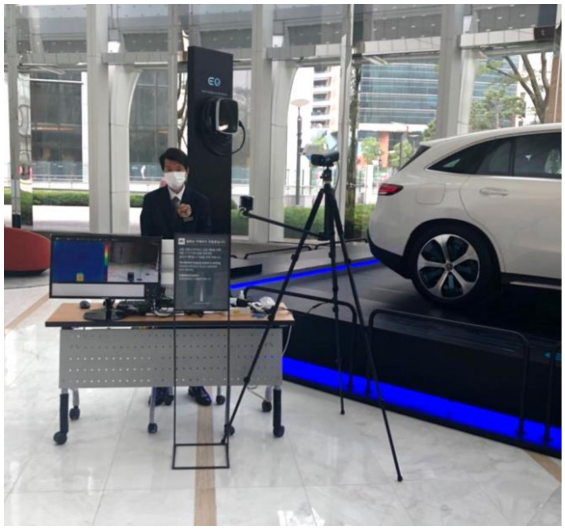
Doc No: IFS-HQ1-DS-EN-10





Introduction

IFS-HQ1 is a cost effective tool to defend at the front line of Epidemic. It provides the simple method for fever scanning people in the crowd. Using a constant heat source for highest accuracy +/- 0.3 oC.

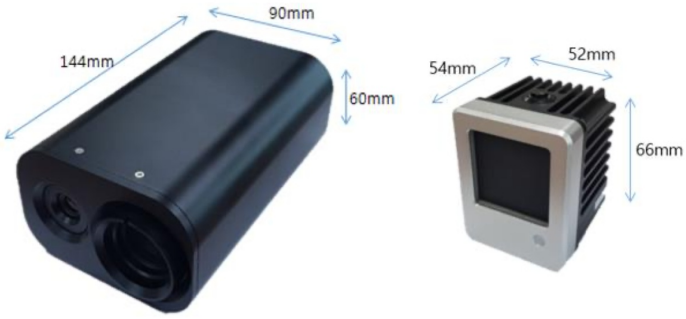


Actual setup

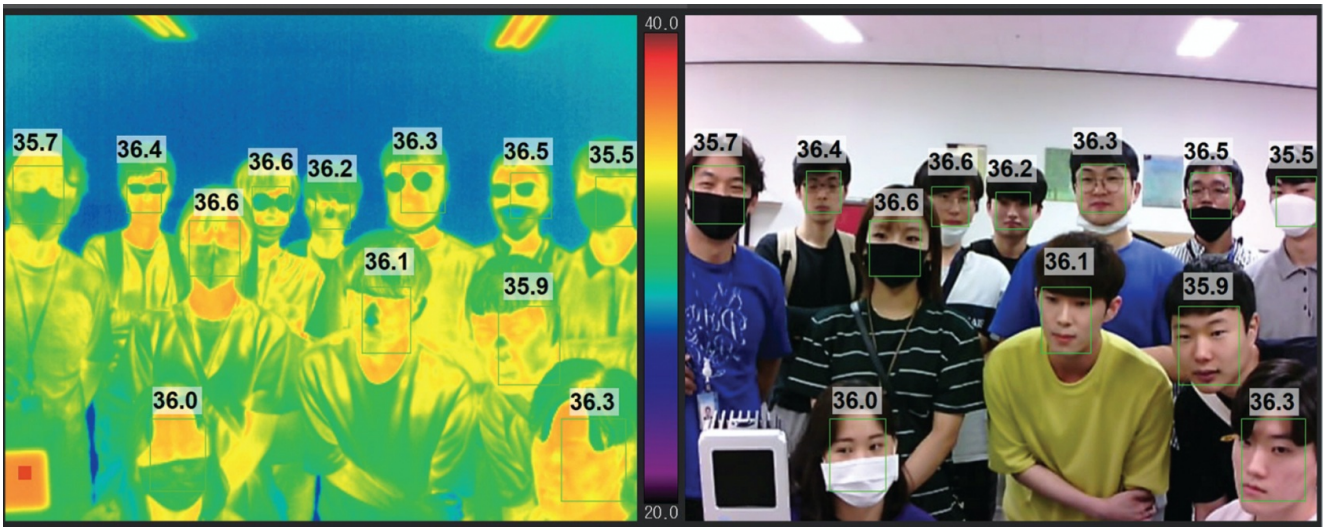
Features

- Extremely high accuracy +/- 0.3 oC;
- Non-contact thermal FEVER scanning for multiple people, max 20 people at the same time;
- Calibrate continuously with constant heat source;
- Calculate distance to compensate the temperature;
- Facial recognition algorithm for accurate and quick measurement;
- Thermal / Visual Imaging;
- AI Face recognition even with mask;
- Identify and record suspected infects: Time log, Face pictures, temperature values...
- Optional: connecting to cloudGlobiot for remote monitoring

Dimensions



Images view on Software (Windows)



Thermal Image

Visual Image

Specification

Detector	Micro-Bolometer(Uncooled)
Thermal Resolution, Pixel pitch	384x288, 17㎛
NETD	50mK / F#1.0, 300K
Temp. Accuracy	±0.3℃ (distance range 1m~4m)
Wavelength	8 to 14㎛
Visible Resolution	1280x720
Time to Image	< 10sec.
Power / Video Output	USB
Framerate	≤ 30Hz
Size	90x60x144(mm)
Weight	< 800g
Operating temp.	10℃~45℃
Storage temp.	-10℃~65℃
Power Consumption	≤ 5W

Temp. Range	User specified preset value (34℃~40℃) (default setting : 36.5℃)
Temp. Accuracy	±0.3℃
Effective Area	40x40(mm)
Emissivity	0.97 ± 0.02
Power Supply	USB-C or DC Adapter
Power	+5 Vdc (Max 2A)
Power Consumption	< 7.5 W (1.5A)
Time to Use	≤ 1 min.
Size (mm)	52(W)x66(H)x54(D)
Weight	≤ 300g (w/o cables)
Operating temp.	10℃~45℃
Features	LED Indicator Mount hole

Focal Length	F#	FOV (H x V)
9.7mm	f/1.0	37.5°±2°x 28.5°±2°

Ordering codes

Item code	Descriptions
IFS-HQ1-01	Infrared Fever Scanner for max 20 people, QVGA 384x288, 17µm, c/w Windows SW, Thermal + Visible imaging, USB3.0, Lens 9.7mm(f/1.0), Frame rate <30Hz, included Black body, NOT included stand and computer
STAND-01	Tripod with Arm bar

⚠ Link for full datasheet:

⚠ Link for manual:

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pH Sensors

Datasheet for all kinds of pH Sensor

Process Flat pH Sensor H087

SKU: H087

Doc No: H087-DS-EN-10

Introduction

H087 is a popular general purpose in-line (continuous measurement) electrode offering affordable, flat sensor application coverage for many water applications such as drinking water, industrial water, aquaculture, tank installations or related applications. The flat surface sensor is often referred to as "self-cleaning" when installed in a process stream since the water flow has a tendency to "shear off" biofouling and other debris from the sensor surface.

- 3/4" NPT threads on both front & back;
- Flat surface sensor with "self-cleaning" properties;
- Built-in temperature sensor Pt100.

Typical applications

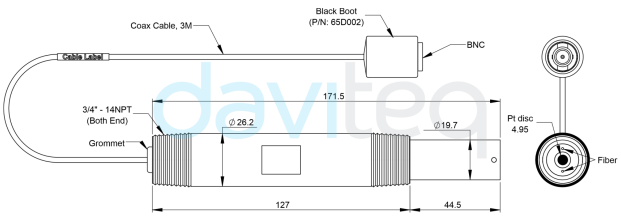
- Drinking water;
- Waste water;
- Industrial water;
- Aquaculture;
- Agriculture;
- Hydroponic;
- Soil pH measurement.

PROCESS PH FLAT SENSOR
H087



H087-H1.PNG

DIMENSION DRAWING OF H087
(Unit: mm)



H087-H2.PNG

Specification

Sensing Technology	Glass, combine electrode with Pt100 temperature sensor
Measuring range	pH 0 .. 14
Resolution	pH 0.1
Accuracy	+/- 0.1
Working temperature	0 .. 100 oC (compensated)
Working pressure	0 .. 100 psig
Process connection	3/4" NPT both ends
Wetted parts	PVC

Sensor Cable	6m with BNC connector
Rating	IP68
Sensor Dimension	D27 x 172 (mm)
Sensor net weight	< 200 grams

Ordering Code

Item code	Descriptions
H087-0020	PH SENSOR COMBO, IN-LINE, 3/4NPT PH COMBO, IN-LINE, CPVC, 3/4"NPT, ASGV FLAT, PT100 OHM, DJ, AG/AGCL, GEL, CE, 20F CABLE, BNC & T

⚠ Link for full datasheet: https://filerun.daviteq.com/wl/?id=ZfgOqaUaPovTmC9NM9sragDDe60lrzbQ

⚠ Link for manual:

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Process pH Sensor PH12

SKU: H087

Doc No: PH12-DS-EN-10

Introduction

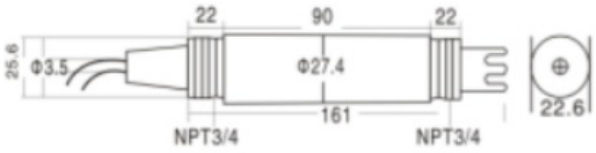
PH12 is a popular general purpose in-line (continuous measurement) electrode offering affordable sensor application coverage for many water applications such as drinking water, industrial water, aquaculture, tank installations or related applications.

- 3/4" NPT threads on both front & back;
- Built-in temperature sensor Pt100.

Typical applications

- Drinking water;
- Waste water;
- Industrial water;
- Aquaculture;
- Agriculture;
- Hydroponic;
- Soil pH measurement.





Specification

Sensing Technology	Glass, combine electrode with Pt100 temperature sensor
Measuring range	pH 0 .. 14
Resolution	pH 0.1
Accuracy	+/- 0.1
Working temperature	0 .. 60 oC (compensated)
Working pressure	0 .. 100 psig
Process connection	3/4" NPT both ends
Wetted parts	PPS/PC
Sensor Cable	5m with BNC connector

Rating	IP68
Sensor Dimension	D27 x 172 (mm)
Sensor net weight	< 200 grams

Ordering Code

Item code	Descriptions
PH12-01	PH SENSOR COMBO, IN-LINE, 3/4NPT PH COMBO, IN-LINE, PPS/PC, 3/4"NPT, PT100, DJ, AG/AGCL, GEL, CE, 5m CABLE, BNC & T

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WIND SPEED SENSOR WSP

SKU: WSP

Doc No: WSP-DS-EN-10

Introduction

WSP is the Wind Speed Sensor with carbon fiber material. Sensor with high weather resistance, high durability, corrosion resistance and water resistance.

- Weather resistant;
- High durability;
- High data transmission efficiency and reliable.

Typical applications

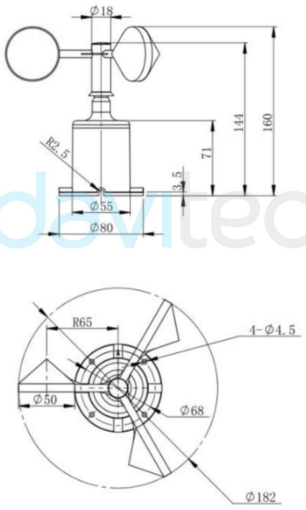
- Weather Station;
- Ship navigation;
- Aviation;
- Weather buoys;
- Wind turbines.

WIND SPEED SENSOR
WSP



WSP-H1.PNG

DIMENSION DRAWING OF SENSOR
(Unit: mm)



WSP-H2.PNG

Specification

Measure range	0-70m/s(Other can be custom made)
Start wind speed	0.2m/s
Response time	<0.5s
Resolution	0.1m/s
Accuracy	±(0.2+0.03V)m/s, V means wind speed
Output	0..5VDC
Power supply	12..24VDC
Power consumption	≤0.3W

Working temperature	-20~60℃
Working humidity	≤100%RH
Cable specifications	2m 3-wire system (analog signal)

Ordering Code

Item code	Descriptions
WSP-01-ANALOG	WIND SPEED SENSOR, 0-70 M/S, CARBON FIBER, 0-5VDC OUTPUT, 12-24VDC, WITH CABLE AND CONNECTOR
MBRTU-WSP-01	WIND SPEED SENSOR, CARBON FIBER CUPS, RS485/MODBUSRTU, 12-24VDC SUPPLY, 0-45M/S, IP65

⚠ Link for full datasheet:

⚠ Link for manual:

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WIND DIRECTION SENSOR WDR

SKU: WDR

Doc No: WDR-DS-EN-10

Introduction

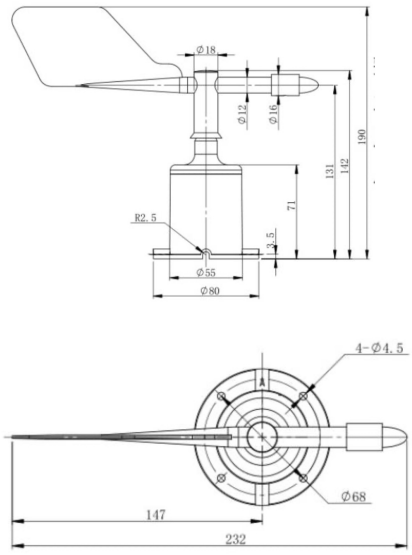
The wind direction sensor is used to measure the direction value of the wind and convert it into an electrical signal, which can be directly transmitted to the recording device for processing. The sensor housing is made of polycarbonate environmental protection material, with very small dimensional tolerances and high surface accuracy.
The wind direction sensor adopts low inertia wind vane and precision potentiometer, with high sensitivity and high precision.

- Weather resistant;
- High durability;
- High data transmission efficiency and reliable.

Typical applications

- Weather Station;
- Ship navigation;
- Aviation;
- Weather buoys;
- Wind turbines.





Specification

Measure range	0-360 degree
Start wind	0.5 m/s
Resolution	0.1 degree
Accuracy	+/- 1 degree
Maximum turning radius	200mm
Output	0..5VDC or RS485 ModbusRTU

Power supply	12..24VDC
Power consumption	≤0.3W
Working temperature	-20~60℃
Working humidity	≤100%RH
Cable specifications	2m 3-wire system (analog signal)

Ordering Code

Item code	**Descriptions**
WDR-01-ANALOG	WIND DIRECTION SENSOR, 0-360 DEGREE, CARBON FIBER, 0-5VDC OUTPUT, 12-24VDC, WITH CABLE AND CONNECTOR
MBRTU-WDR-01	WIND DIRECTION SENSOR, 0-360 DEGREE, CARBON FIBER, MODBUSRTU RS485 OUTPUT, 12-24VDC, IP65

⚠ Link for full datasheet:

⚠ Link for manual:

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