

Specifications		
Product	Multi-Channel Anemomaster PRO Main Unit	
Model	Model 1590-00	
Display, Operation	7-inch color LCD with touch panel	
Communication Function	Data	USB Type-A: For USB memory
	Remote measurement	Modbus (Ethernet, USB Serial)
	Between units	RS485 (Standard cable)
Recording Media	Medium	Built-in memory
	Format	CSV format
	Recording capacity	8GB (One hub unit can measure 1000 sampling times, about 24500 times.)
External Trigger Input	Pin jack terminal Φ2.5 audio jack (Edge detection at start)	
Language	Japanese, English, Chinese	
Power Supply	DC12 to 24V (Select either one of 3 options below) 1) Connection with other unit, 2) AC adaptor (90W or 160W), 3) DC power cable	
Power consumption	10W	
Size	W220 mm × D130 mm × H40 mm	
Weight	0.6 kg	
Standard Accessories	AC Adapter (90W), Software (CD), Operation manual, USB cable, Stylus pen, Rubber cap	
Warranty	1 year	

Product		HUB Unit
Model		Model 1591-00
Number of channels		12ch
Communication Function	Between Probes	Serial communication (standard cable)
	Between Units	Serial communication (standard cable, connector)
Power Supply		DC12 ~ 24V
Power consumption		Power supply method conforms to the main unit
Size		Up to 50W
Weight		W220mm × D130mm × H40mm
Standard Accessories		0.5kg Setup guide, Connecting clips (2pcs)
Warranty		1 Year

Product			Analog Unit
Model			Model 1592-00
Number of channels			12ch
Communication Function		Between units	Serial communication (standard cable, connector)
Analog Output	Voltage output	Range	0 ~ 5V
		Output resistance	1kΩ
	Current output	Range	4 ~ 20mA
		Load resistance	250Ω
Power Supply			DC12 ~ 24V Power supply method conforms to the main unit
			10W
Size			W220mm × D130mm × H40mm
Weight			0.5kg
Standard Accessories			Setup guide, Connecting clips (2pcs), Rubber cap (2pcs), Terminal block (3pcs)
Warranty			1 year

Common specifications for unit	
Operating Environment	5~40℃、0~85%RH(No Condensation)
Storage Environment	-10~60℃、0~90%RH (No Condensation)

Specification of Probe														
Model Number	Measurement Target	Directivity	Air Velocity			Wind Temperature		Humidity		Operating Temperature	Temperature compensation sensor			
			Measurement Range	Measurement Accuracy	Responsivity	Measurement Range	Measurement Accuracy	Measurement Range	Measurement Accuracy					
0972-00	Wind Speed	Yes	0.01~50.0m/s	The larger of ± 2% or ± 0.02 m/s of the displayed value	1 second	—	—	—	—	0-100℃	± 5% of displayed value at 0-100 ℃			
0973-00			0.01~25.0m/s									3 second		
0975-00			0.01~50.0m/s											
0975-09		No	0.01~30.0m/s	The larger of ± 3% or ± 0.02 m / s of the displayed value	3 second					0~120℃	±0.5%	5~80%RH: 3%RH 80~90%RH: 5%RH	0-60℃	± 5% of displayed value at 0-60 ℃
0975-10														
0976-03														
0976-04														
0976-07														
0976-13														
0976-14														
0976-17														
0976-05	Air Velocity and Temperature	No	0.01~25.0m/s	The larger of ± 2% or ± 0.02 m/s of the displayed value	3 second	0~120℃	±0.5%	5~80%RH: 3%RH 80~90%RH: 5%RH	0-60℃	± 5% of displayed value at 0-60 ℃				
0976-15														
0975-21														
0975-31	Air Velocity, Temperature and Humidity	No	0.01~25.0m/s	The larger of ± 2% or ± 0.02 m/s of the displayed value	3 second	0~60℃	±0.5%	5~80%RH: 3%RH 80~90%RH: 5%RH	0-60℃	± 5% of displayed value at 0-60 ℃				

Responsivity: Indicated value gets 0.9m/s or more than 0.9m/s to "air velocity 1m/s" or the certain temperature condition



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E1590-1E



Multi-Channel Anemomaster PRO

MODEL 1590



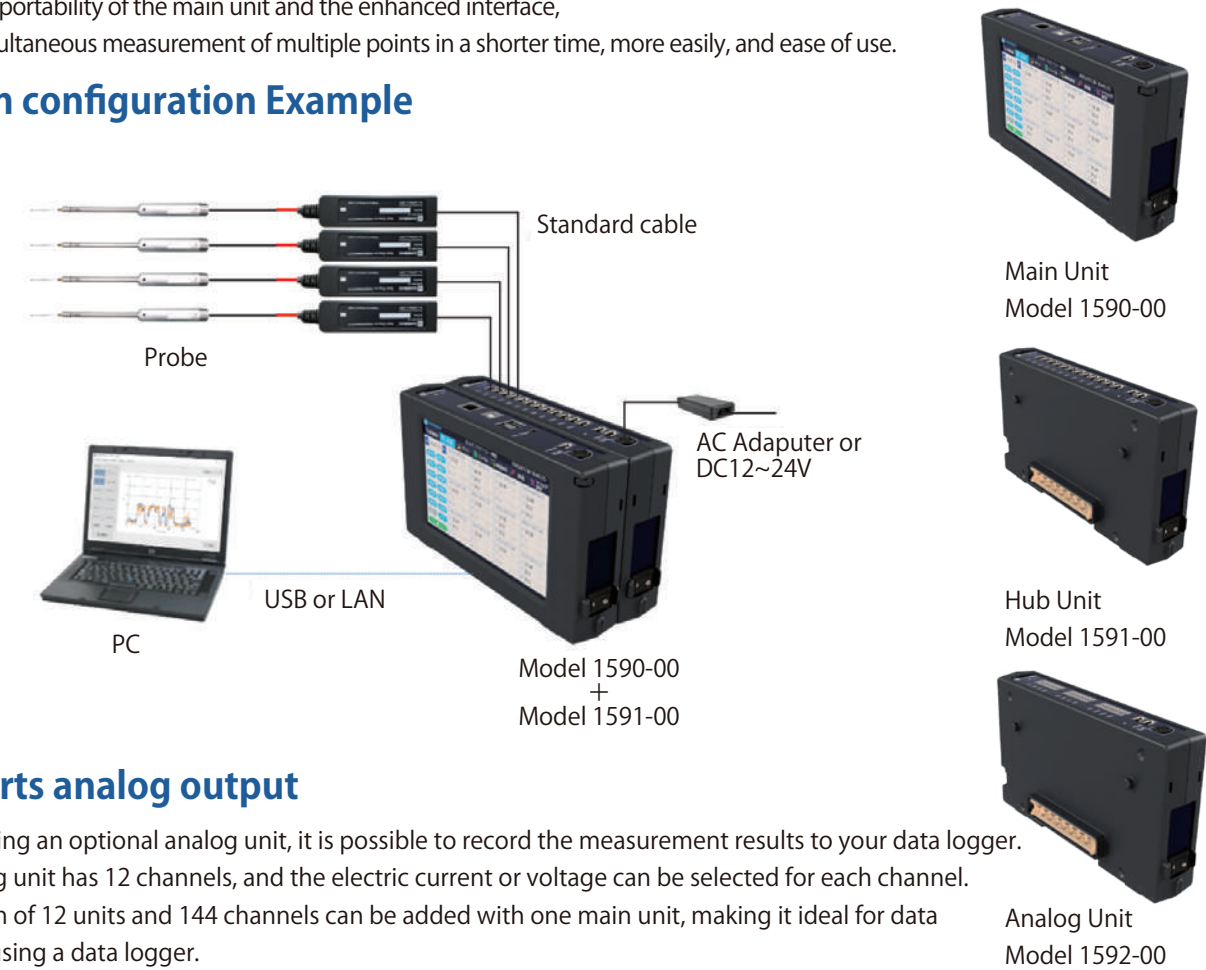
Accurate simultaneous multi-channel measurement from large to narrow spaces

- 15 types of compatible probes for various applications
- The smallest class probe in the industry
- High heat resistance enables precise measurement even in tough environments.
- Large-scale system configuration with max.144 ch available
- Measurement in large-scale space is easy
- High portability of the main body makes it easy to use in vehicles.
- Improved probe response and accuracy, micro air velocity limit of 0.01 m/s

Flexible system construction that allows you to select the number of channels, measurement items, and sensor shape according to your purpose.

The accuracy and responsiveness of the entire velocity range, including the breeze speed range, which are highest level in the world. Multipoint measurement on up to 144 channels is realized with the industry's smallest level miniature probe, high heat resistance, and temperature measurement. Due to the high portability of the main unit and the enhanced interface, we pursued simultaneous measurement of multiple points in a shorter time, more easily, and ease of use.

System configuration Example

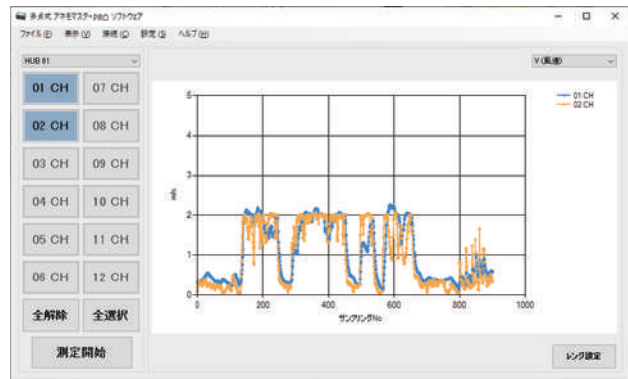


Supports analog output

By connecting an optional analog unit, it is possible to record the measurement results to your data logger. Each analog unit has 12 channels, and the electric current or voltage can be selected for each channel. A maximum of 12 units and 144 channels can be added with one main unit, making it ideal for data collection using a data logger.

Software

This product comes with a Windows version of the measurement software. Simultaneous measurement of all channels of air velocity, temperature and humidity, and real-time graph display. The measurement data is saved in text format and can be easily imported into table measurement software such as Excel. There are two types of communication interfaces, USB and LAN. There are two ways to configure the settings: by operating the touch panel on the main unit, or remotely from a PC via USB or LAN.

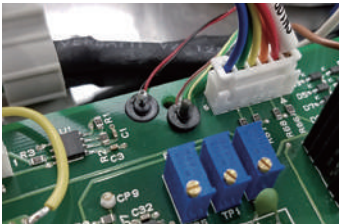


Application Example

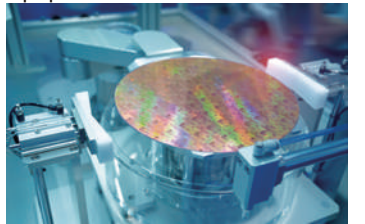
Thermal management of the ECU



Evaluation of heat measures for the electronic infrastructure



Airflow management indoors for semiconductor manufacturing equipment



Data center thermal management



Air velocity range of compatibility probes to meet a many different type of customer needs

15 Types of Probes Are Available

Model 0972-00

V : 0.01 ~ 50.0 m/s

Model 0973-00

V : 0.01 ~ 50.0 m/s

Model 0975-00

V : 0.01 ~ 25.0 m/s

Model 0975-09 / 21

V : 0.01 ~ 50.0 m/s (09)
V : 0.01 ~ 25.0 m/s (21)
T : 0 ~ 100 °C (21)

Model 0975-10

V : 0.01 ~ 50.0 m/s

Model 0976-03 / 13

V : 0.01 ~ 30.0 m/s
Operating temperature : 0 ~ 120 °C (03)
0 ~ 100 °C (13)

Model 0976-04 / 14

V : 0.01 ~ 30.0 m/s
Operating temperature : 0 ~ 120 °C (04)
0 ~ 100 °C (14)

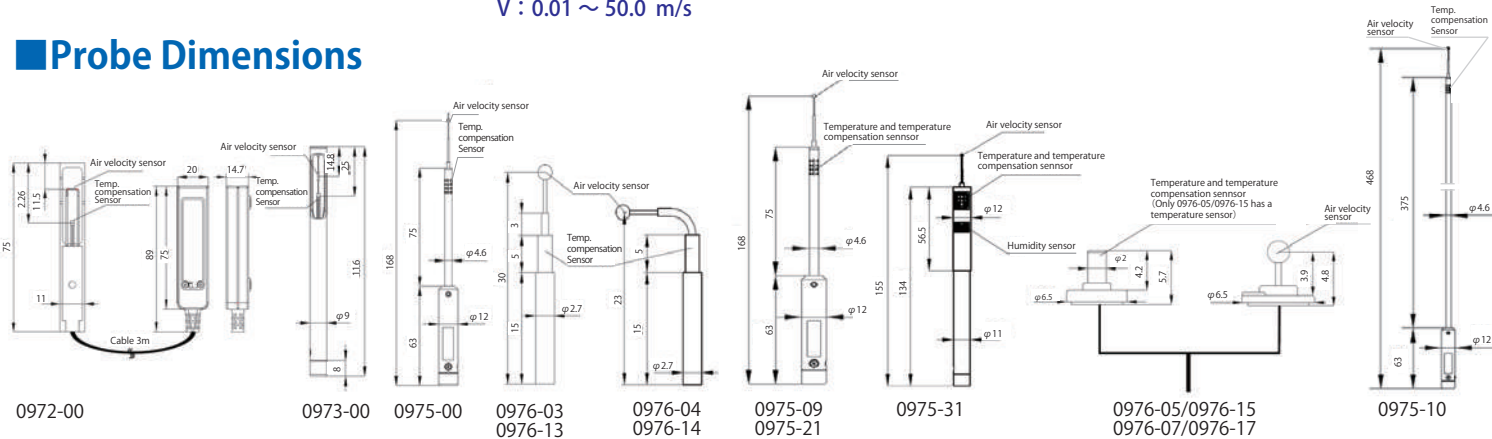
Model 0975-31

V : 0.01 ~ 25.0 m/s
T : 0 ~ 60 °C
H : 5 ~ 95 %RH

Model 0976-05 / 15 0976-07 / 17

V : 0.01 ~ 30.0 m/s
T : 0 ~ 120 °C (05)
0 ~ 100 °C (15)
Operating temperature : 0 ~ 120 °C (05 / 07)
0 ~ 100 °C (15 / 17)
Probe height : 5.8 mm

Probe Dimensions



Available Accessories

AC adapter

Model 1580-10
Output power : 90W
Input : AC100-240V
50/60Hz, 1.5A

Standard cable

DC power connection cable

Model 1580-37
Length : 2m
Supply voltage : 12 ~ 24V
Power capacity : Maximum 6.25A
(Maximum about 150W)

Probe fixing jig

Model 1580-90
Compatible probe : 0976-03/04 0976-13/14
Upper-temperature limit : 150°C
Quantity : 20 pairs / 1 pack

Double-coated tape for 0976

Model 1580-92
Compatible probe : 0976-05/07 0976-15/17
Size : φ5.5×t0.3mm
Upper-temperature limit : 120°C
Quantity : 200 pairs / 1 pack

Model	Length
1580-30	0.5m
1580-31	2m
1580-32	5m
1580-33	10m
1580-34	20m
1580-35	40m

Probe fixing example

Example or probe with the double-sided tape