| |

| | |
|---|---|
| | Pt20 / Pt300 / Pt1000 |
| | 0 ... 120 Nm/s |
| | N : : 20°C 1013 hPa) |
| | Nm/s Nm |
| | 0.15 Nm/s |
| | 3% |
| | 10° |
| | 4 ... 20 mA / 0 ... 10 V / RS-485 / |
| | 1 : ; 2 : |
| 0 ... 100 HZ | 1 0 ... 100 Hz : 4 ... 20 mA |
| | 2 0 ... 100 Hz : 0 ... 10 V |
| | 3 |
| | ＜60 sec |
| | t90＜5 sec |
| | 2 LCD |
| | : 0 ... 120°C |
| Load resistance | Current output : ≦500 Ω |
| | Voltage output : ≧100 KΩ |

## Accuracy (at 25°C)

| | |
|---|---|
| Linear accuracy | ±1.5% F.S. (Option ±1%) |
| Temp. influence | 0.1% / °C |
| Repeatability | 0.5% |

## Electrical

| | |
|---|---|
| Power supply | DC 24 V±10% |
| Current consumption | ＜0.3 A |
| Overvoltage protection | DC : ＜40 V |
| Electrical connections | M12 metal connector / terminal IP67 |

## Environmental

| | |
|---|---|
| Measuring medium | Air |
| Operating Temp. | -20 ... +60°C |
| Operating Humid. | 0 ... 95%RH(Non-condensing) |
| Probe operating Temp. | 0 ... 120°C / Option:200°C |
| | (Increasing operating temperature |
| | will affect air velocity error) |
| Storage Temp. | -20 ... +60°C |
| Storage Humid. | 0 ... 95%RH(Non-condensing) |
| Probe pressure | 16 bar |

## Installation

| | |
|---|---|
| Fixed seat | 1/2"PT outside thread metal connector |
| Installation | Duct type |
| | Remote type |

## Protection

| | |
|---|---|
| IP rating | IP67(Probe)；IP65(Housing) |
| Electrical protection | ■ Polarity protection |
| | ■ Over-voltage |
| | ■ Short-circuit |

## Certification

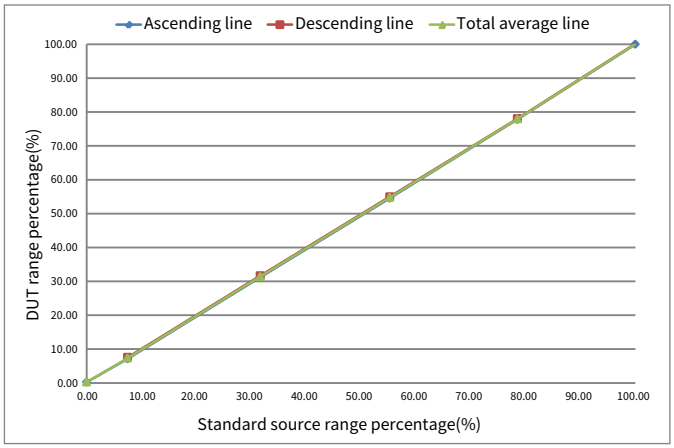
| | |
|---|---|
| Certification | CE |

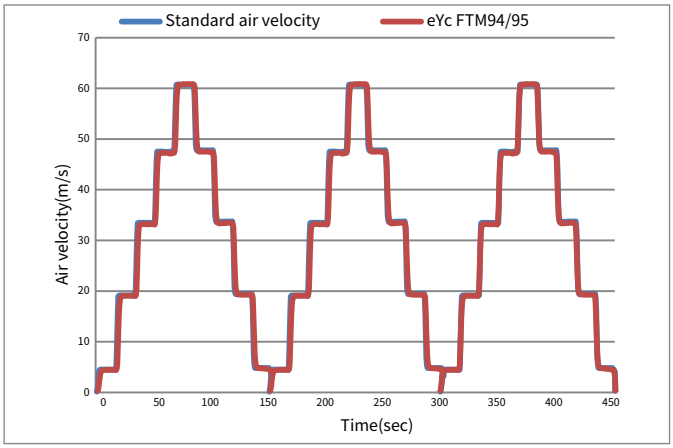
## Material

| | |
|---|---|
| Housing | Aluminum alloy |
| Probe | SUS304 |
| Weight | FTM94 : 720 g |
| | FTM95 : 832 g |

*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

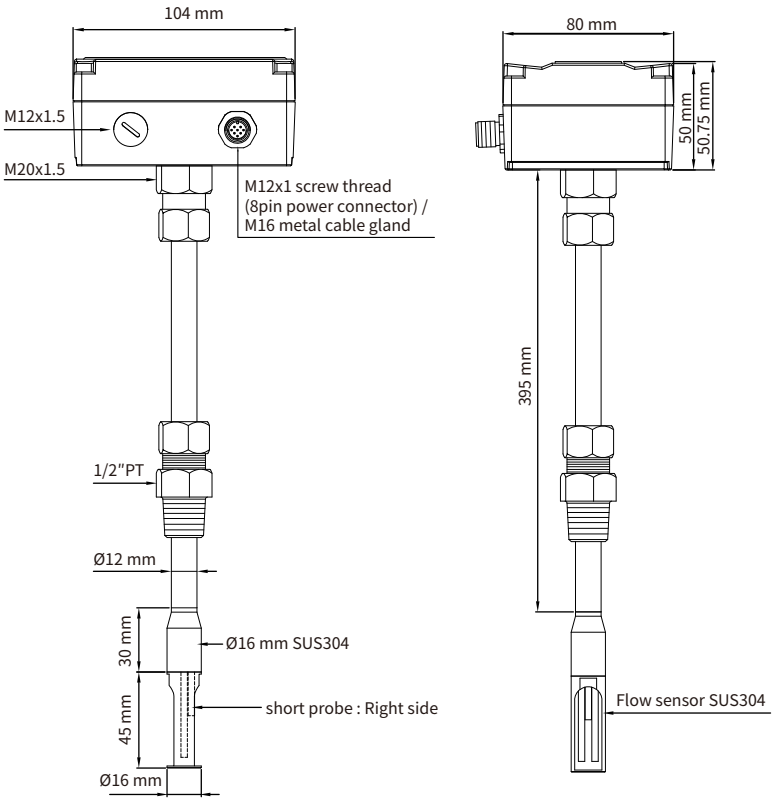
# | 3-Cycle curve |



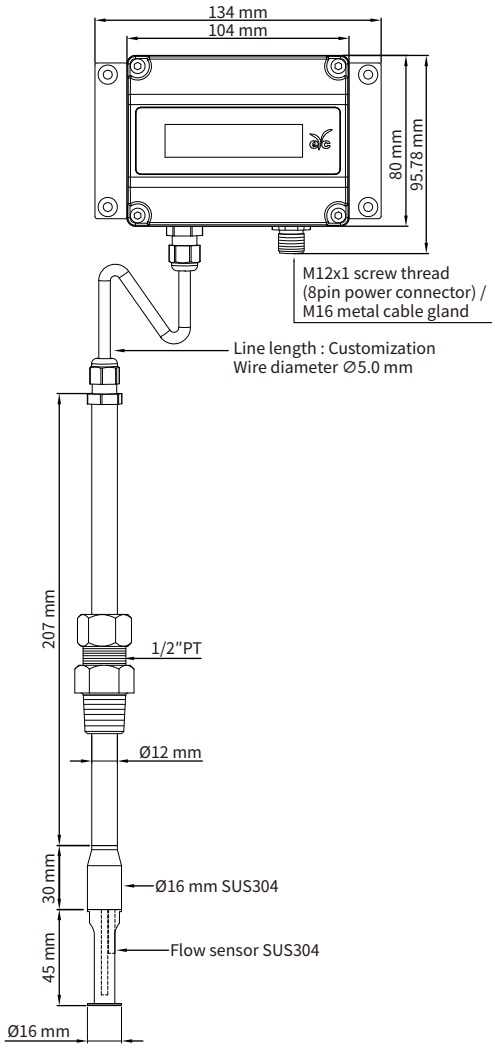



# | Dimension | Unit : mm

FTM94 (Duct)

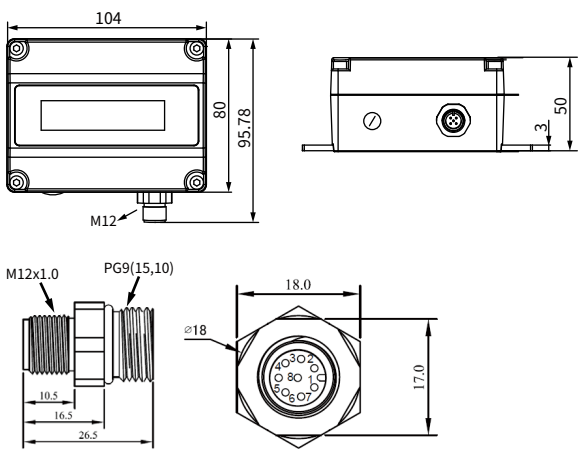



FTM95 (Remote)

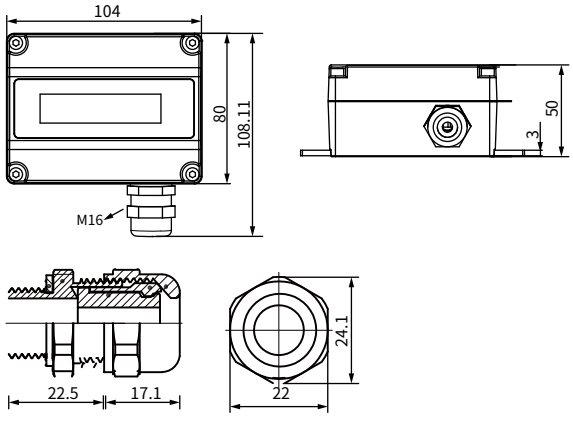



# | Electrical Connector | Unit : mm

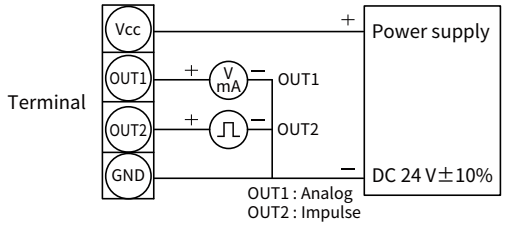
M type :
M12-8PIN metal connector(RS-485+analog)

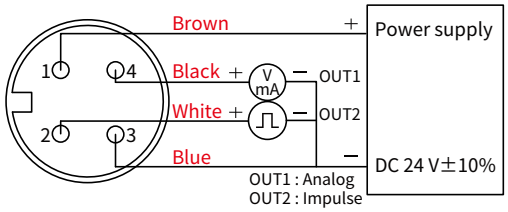



N type :
M16 metal connector(RS-485+analog)

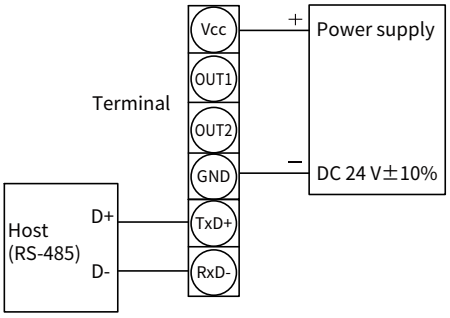


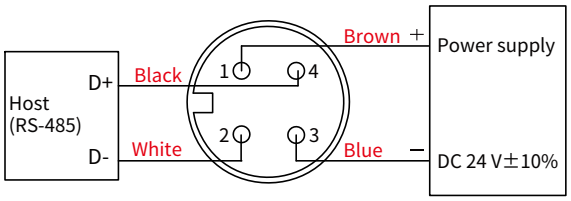
## | Analog & Impulse Diagram |



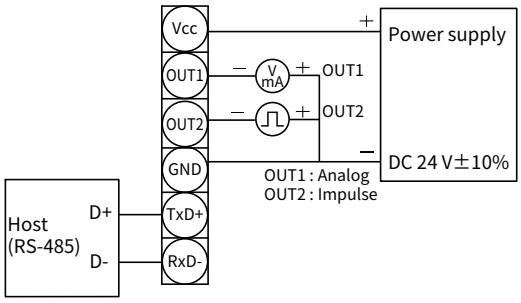



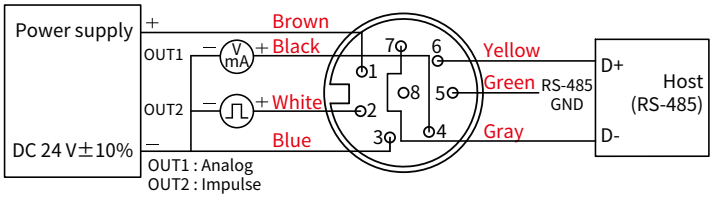

## | RS-485 Diagram |




## | Analog+RS-485 & Impulse Diagram |




## | Hot-wire measurement principle |

The thermal measuring principle abstraction of heat from a heated body by an enveloping gas flow (Hot-film Anemometer)

T between $R_h$ and $R_t$ = constant

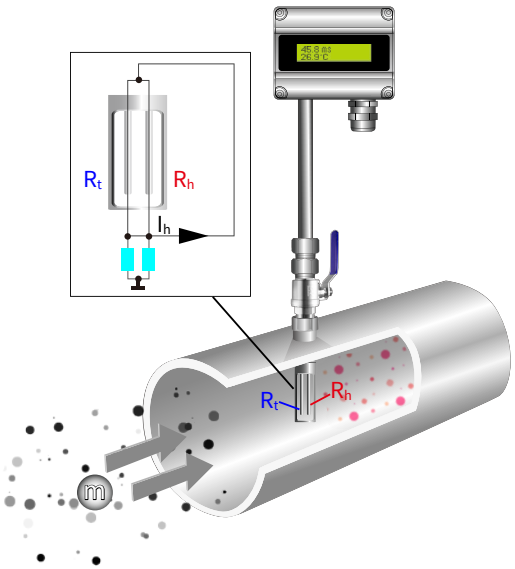
The loss of heat depends on the number of molecules that collide with Rh

m : Mass flow

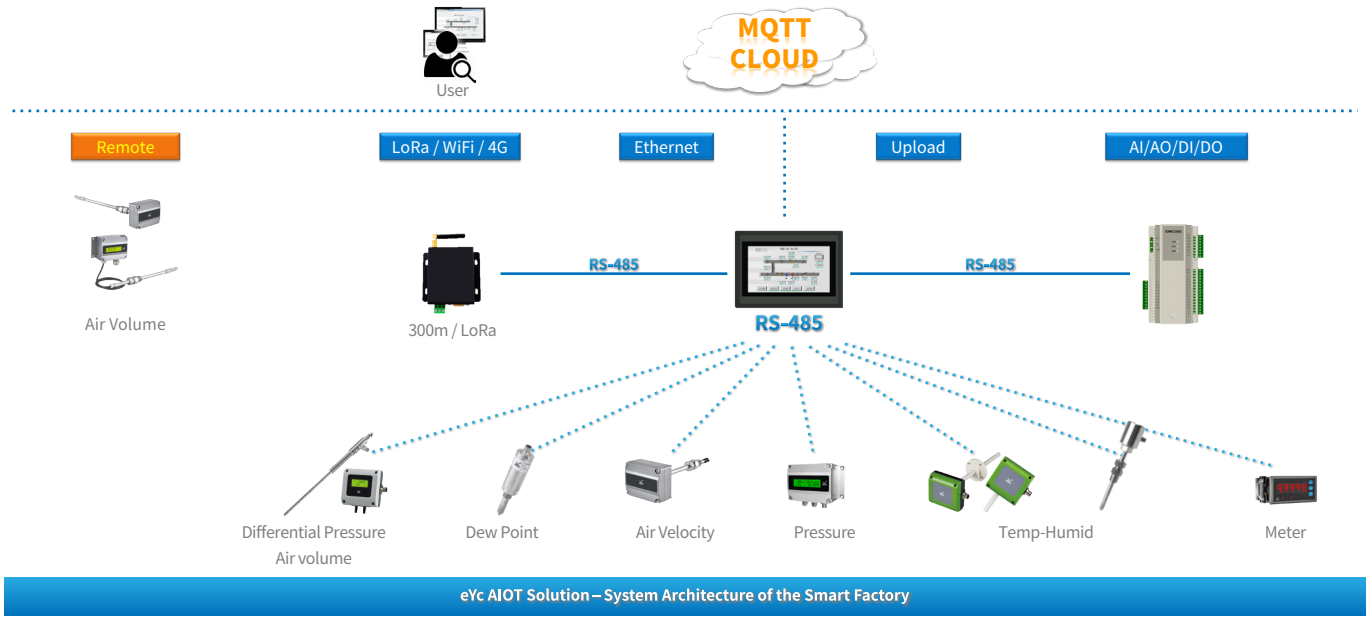
$I_h$ : Heating current

$R_h$ : Platinum thin-film resistor – electrically heated

$R_t$ : Platinum thin-film resistor – gas temperature



# | Product application |




# | Ordering Guide |

FTM 94 – 20 1 1 – X D N

**Installation**
- 94 : Duct type
- 95 : Remote type

**Measuring range**
- 02 : 20 Nm/s
- 04 : 40 Nm/s
- 06 : 60 Nm/s
- 09 : 90 Nm/s
- 12 : 120 Nm/s

**Output**
- 1 : 4 ... 20 mA+impulse
- 2 : 0 ... 10 V+impulse
- 3 : No

**Modbus**
- 0 : No
- 1 : RS-485

**Cable**
- 2 : 2 m cable
- 5 : 5 m cable
- W : Other lengths
- X : No

**Display**
- D : LCD display
- N : No

**Option**
- M : M12 metal connector (with 2 m electrical cable)
- N : Metal cable gland
- W : Other request

# | Additional Option Test Report | For more detailed information please contact us.

## ■ILAC / TAF

YUDEN-TECH CO.,LTD. Calibration Laboratory - ( ILAC / TAF ) Test report.
(TAF accreditation：3032, complying with ISO / IEC 17025 ) TAF has mutual recognition arrangement with ILAC MRA

| Project | Measurand level or range |
|---|---|
| Air velocity transmitter | 0.2 m/s ... 60 m/s |

## ■ISO 9001

| Project | Measurand level or range |
|---|---|
| Air velocity / Air volume | Air velocity ：≦ 120 m/s |
| | Air volume：0.5 $m^3/h$ ... 1000 $m^3/h$ |