

휴대용풍속계

Thermo-Anemometer

DELTA OHM(ITALY)

대형 액정의 휴대용 풍속계



HD 2303.0

규격

휴대용풍속계

MODEL : HD 2303.0

특징

- 대형 LCD 화면의 휴대용 풍속계입니다
- 열선 Probe 혹은 vane probe를 선택하여 사용합니다
- 온도 sensor는 Pt100, Pt1000입니다
- 온도 sensor는 SICRAM모듈에 의해 설계되었고 공장 출하 전 교정되어 있습니다
- 최대, 최소, 평균값 측정기능이 있습니다
- 상대측정 REL, HOLD기능, 자동 OFF기능이 있습니다
- 방수등급(IP67)입니다

| MODEL | HD2303.0 |
|---------|---|
| 측정 unit | °C-°F-m/s-km/h-ft/min-mpH-knot-l/s m³/s-m³/min-m³/h-ft³/s-ft³/min |
| 표시 | 2×4½ digits Plus symbols Visible area : 52×42mm |
| 온도 범위 | Pt100 measurement range -200...+650°C Pt1000 measurement range -200...+650°C |
| 분해능력 | 0.1°C |
| 정밀도 | ±0.1°C |
| 주위 온도 | -5~50°C |
| 방수 등급 | IP 67 |
| 전원 | 1.5V × 3EA(AA전지) |
| 규격 | 140×88×38mm / 160g |



Main body

무지향성Probe
W/base Ap471 S4

8-pole male
DIN 45326 Connector

Ip67 Protection degree
Beltery(1.5v 3EA) cover

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Hot-wire probe

| MODEL | AP471 S1-AP471 S3 | AP471 S2 | AP471 S4 AP471 S5 |
|--|--|---|----------------------|
| Type of measure | Air speed, calculated flow rate, air temperature | | |
| Type of sensor : | | | |
| Speed | NTC thermistor | Omnidirectional NTC thermistor | |
| Temperature | NTC thermistor | NTC thermistor | |
| Measurement range : | | | |
| Speed | 0...40% | 0...5% | |
| Temperature | -30...+110°C | -30...+100°C -30...+80°C | |
| Measurement resolution : | | | |
| Speed | 0.01 % | | |
| | 0.1 km/h | | |
| | 1 ft/min | | |
| | 0.1 mph | | |
| Temperature | 0.1°C | | |
| | 0.1°C | | |
| Measurement resolution : | | | |
| Speed | ±0.05% (0...0.99%) | ±0.02% (0...0.99%) | |
| | ±0.2% (1.00...9.99%) | ±0.1% (1.00...5.00%) | |
| | ±0.6% (10...40.0%) | | |
| Temperature | ±0.4°C(-30...+110°C) | | |
| Minimum speed | 0% | | |
| Air temperature compensation | 0...80°C | | |
| Batter life | Approx.20hours@20% with alkaline batteries | Approx.30hours @5% with alkaline batteries | |
| Unit of measurement | | | |
| Speed | % - km/h-ft/min-mp-h-knot | | |
| Flow rate | l/s-m³/s-m³/min-m³/h-ft³/s-ft³/min | | |
| Pipeline section for flow rate calculation | 0.0001...1.9999m³ | | |
| Cable length | ~2m | | |

Vane Probe

| MODEL | AP472 S1.. | | AP472S2 | AP472 S4.. | | | |
|--|--|---|---|---------------------------------|--|---------------------------------|--|
| | L | H | | L | LT | H | HT |
| Type of measure | Air speed, calculated flow rate, air temperature | | Air speed, calculated flow rate | Air speed, calculated flow rate | Air speed, calculated flow rate, air temperature | Air speed, calculated flow rate | Air speed, calculated flow rate, air temperature |
| Diameter | 100mm | | 60mm | 16mm | | | |
| Type of measurement | Vane | | Vane | Vane | | | |
| Speed | K thermo-Coulpe | | — | — | K thermo-Coulpe | — | K thermo-Coulpe |
| Temperature | — | | — | — | — | — | — |
| Measurement range : | | | | | | | |
| Speed(%) | 0.6...20 | | 10...30 | 0.25...20 | | 0.6...20 | |
| Temperature(°C) | -25...+80(*) | | -25...+80(*) | -25...+80(*) | | -30...+120(*) | |
| Resolution : | | | | | | | |
| Speed | 0.1°C | | 0.01 %, 0.1 km/h, 1 ft/min, 0.1 mph, 0.1 knot | | | | 0.1°C |
| Temperature | — | | — | — | 0.1°C | — | 0.1°C |
| Accuracy | | | | | | | |
| Speed | ±(0.1% +1.5%f.s.) | | ±(0.1% +1.5%f.s.) | | ±(0.2% +1.0%f.s.) | | |
| Temperature | ±0.5°C | | — | | ±0.5°C | | ±0.5°C |
| Minimum speed | 0.6% | | 10% | 0.25% | | 0.60% | |
| Unit of Measurement | | | | | | | |
| Speed | % - km/h-ft/min-mp-h-knot | | | | | | |
| Flow rate | l/s-m³/s-m³/min-m³/h-ft³/s-ft³/min | | | | | | |
| Pipeline section for flow rate calculation | 0.0001...1.9999m³ | | | | | | |
| Cable length | ~2m | | | | | | |

*vane으로 측정할 수 있는 온도

*한계온도는 sensor부가 아닌 곳으로 sensor부는 최고 80°C까지입니다.

●●● 규격

Temperature probes Pt100 sensor using SICRAM module

| MODEL | Type | 측정범위 | 정도 |
|-------------|-----------------------------|---------------|---|
| TP 472 I | Immersion | -196°C~+500°C | ±0.25°C (-196°C~+350°C) ±0.4°C (+350°C~+500°C) |
| TP 472 I.0 | Immersion | -50°C~+400°C | ±0.25°C (-50°C~+350°C) ±0.4°C (+350°C~+400°C) |
| TP 473 P.0 | Penetration | -50°C~+400°C | ±0.25°C (-50°C~+350°C) ±0.4°C (+350°C~+400°C) |
| TP 474 C.0 | Contact | -50°C~+400°C | ±0.3°C (-50°C~+350°C) ±0.4°C (+350°C~+400°C) |
| TP 475 A.0 | Air | -50°C~+250°C | ±0.3°C (-50°C~+250°C) |
| TP 472 I.5 | Immersion | -50°C~+400°C | ±0.3°C (-50°C~+350°C) ±0.4°C (+350°C~+400°C) |
| TP 472 I.10 | Immersion | -50°C~+400°C | ±0.3°C (-50°C~+350°C) ±0.4°C (+350°C~+400°C) |
| TP 875 | Globe thermometer Ø150mm | -10°C~+100°C | ±0.25°C |

Common characteristics

Resolution 0.1°C
Temperature drift @ 20°C 0.003%/°C

4wire Pt100 and 2 wire Pt1000 Probes

| MODEL | Type | 측정범위 | 정도 |
|------------|--------------|--------------|---------|
| TP 47.100 | Pt100 4wires | -50°C~+400°C | Class A |
| TP 47.1000 | Pt100 2wires | -50°C~+400°C | Class A |

Common characteristics

Resolution 0.1°C
Temperature drift @ 20°C
Pt100 0.003%/°C
Pt1000 0.005%/°C