

Portable Wind Monitor



용도

Applications

- 풍향, 풍속을 동시에 측정
- 온도 · 습도 측정 가능(선택사양)

특징

Features

- 컴팩트한 디자인으로 분해 조립이 쉬움
- 소형, 경량(약 3kg)구조로 이동이 편리

Model : **DNA 021**

SPECIFICATIONS

Data Logger

Data Out put	RS232
EEPROM Memory	32 Kb
A/D Converter	12 bit
Display	LCD 80 characters
Acquisition Rate	Programmable for all types of probes form 2 sec to 24 h
Duration of each Acquisition	1 sec for each sensor
Keyboard	alphanumeric with 21 keys
Power supply	9 Vdc N.2 batteries 9 Volt AlkMn
Average Consumption (without powered sensors)	17 mA
Battery Duration (without powered sensors)	36 h
Environmental Range	0+50°C

Housing	Anodised aluminium box
Dimensions (mm)	112x220x33
Weight	850 gr
CombiSD Combined Wind Speed & Direction Sensor	
Principle of operation	3 cups and vane anemometer
Speed sensor	Optoelectronic disk
Direction sensor	2000 Ohm wire potentiometer
Housing	Heavy gauge anodized aluminium, painted with epoxy-resin
Shaft carriers	Low-torque stainless steel bearings
Protection(vertical position)	IP65
Mechanical mounting	On 48~50 mm Φ mast
Electrical discharge protection	Transzorb on output terminators
Electrical outlet terminators	IP65 watertight connector
Weight(instrument with rotors)	950 g
Speed	
Measurement range	0~60 ms ⁻¹
Threshold	0.38 ms ⁻¹
Response time(63% at 1.2 ms ⁻¹)	0.8s
Delay distance(63% at 1.1 ms ⁻¹)	4.0m
Resolution(integration time = 1s)	0.05 ms ⁻¹
Accuracy & Linearity	0.1 m/s + 1 % VL (reading)
Direction	
Measurement range	0~360°
Threshold	0.15 ms ⁻¹
Response time(at 5 ms ⁻¹)	0.26s
Delay distance(at 5 ms ⁻¹)	<1.32m
Damping coefficient	0.21
Overshoot ratio	0.25
Transfer function	Dir(°)=355xR(ohm) / 2000
Resolution	0.1°
Accuracy	1% FS
Integral linearity	0.5%

CONFIGURATIONS

BabucM, 4-inputs and 32K memory	1 set
Combine wind speed & direction sensor	1 ea
Rotor for CombiSD sensor	1 ea
Flag for CombiSD sensor	1 ea
Connection cable between BabucM and LASTEM	1 ea
Wind speed & direction sensor DNA021	
Tripod	1 ea
Stand for BabucM and probes on BVA304 Tripod	1 ea
Power pack	1 ea

OPTIONAL ACCESSORIES

Shockproof, air tight carrying case	1 ea
InfoGAP BASE PC Program	1 ea
Serial Cable 9F for Babuc-PC RS232 serial port connection (L=4m)	1 ea
Arm H.30cm for mounting of LASTEM probes	1 ea