MILITARY AUTOMATIC METEOROLOGICAL SENSOR – 5060 SERIES

IRDAM 5060 meteorological sensor is a powerful digital instrument measuring local real time environmental conditions.



Based on the same technology as its bigger sister the famous 6056, this stripped-down version is especially designed for light wheeled vehicles equipped with small or medium calibre guns.

Its patented operating principle with no moving parts makes it perfectly adapted to military environments : vibrations, shocks, dust and water.

IRDAM sensors are the result of over 30 years of experience and development. They demonstrated their reliability and performance on worldwide battlefields.



5060 meteorological sensors are fully automatic and measure constantly:

- Wind speed
- Wind direction
- Air temperature
- Atmospheric pressure
- Relative air humidity (optional)

Additional features include:

- Electronic compass indicating wind direction and vehicle direction versus geographical North.
- GPS receiver that combines the geographical coordinates of the measurement location with the meteorological data.
- Digital external temperature sensor TEMPEX (ground, ammunition storage room, etc.).

The high precision meteorological sensor responds quickly to wind variations and measures the slightest breath. The measurements provided by the sensor are transmitted through a single digital frame on RS-422 / RS-485 serial link.

IRDAM sensors are fully certified to military standards and received the "Swiss Made" label.

They do not require any particular maintenance but need to be checked and calibrated regularly as any high precision measuring instrument.











IRDAM SA — Rue des Uttins 38 — 1400 Yverdon-les-Bains — Switzerland Tel: +41 24 447 21 31 — Fax: +41 24 447 21 30 — info@irdam.ch — www.irdam.ch

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Measurements specification

Technical specification

Certification specification

Wind Speed						
Range Accuracy Resolution	0 - 40 m/s ± (0,5 m/s + 5%) 0.1 m/s	Data transmission	RS-422 / RS-485	j		
		Transmission cycle	200 ms			
Wind Direction		Input voltage	18 - 32 V DC		MIL-STD 461 : electromagnetic compatibility	
Azimuth Accuracy	0 - 360° ± 5°	Consumption	< 20 W		Conducted emissionRadiated emissions	CE 102 : 10 kHz to 10 MHz RE 102 : 10 kHz to 18 GHz
Resolution	0,1°	Autotest	Permanent		Radiated susceptibility	RS 103 : 2 MHz to 4.2 GHz
Direction of the station to magnetic North : OPTIONAL		Start up	< 20s			
Azimuth Accuracy	0 - 360° ± 5°	Operating temperature	- 40°C - + 60°C		MIL-STD 810 : environmental	conditions
Resolution Air Temperature	0.1°	Storage temperature	- 51°C - + 70°C		Low pressure (altitude)Low pressure operation	500.4: -40°C; 570 hPa 500.5: 25°C; 572 hPa
Range Accuracy Resolution	- 40°C - + 60°C ± 1°C (@ Wind Speed > 2 m/s) 0.1°C	Size Height Diameter	350 mm 120 mm		 High temperature storage Low temperature storage High temperature operation Low temperature operation Low temperature operation 501.4 proc 1 : +70°C; 2h 502.4 Proc 1 : -51°C; 4h 501.4 Proc 2 : +60°C; 2h 502.4 Proc 2 : -40°C; 4h 	
Absolute Atmospheric Pressure		Base	Ø120 mm		Temperature shock	503.4: +70°C, -40°C, +70°C
Range Accuracy Resolution	600 - 1100 hPa (mbar) ± 5 hPa (mbar) 0,1 hPa (mbar)	Weight Options	2.3 kg		HumidityImmersionVibrationShocks	507.4: 10X 60°C to 30°C @ 95%RH 512.4: +52°C, 1m, 0.5h 514.5: +20°C, 20Hz to 2kHz, 2.2gRMS 516.5: +20°C, sawtooth, 40g 11ms
Relative humidity : OPTIONAL		Ground or ammunition storage TEMPEX			-	
Range Accuracy Resolution	0% - 100 % ± 4 % HR (@ Wind Speed > 2 m/s) 0,1 % HR	room temperature senso Case	PELI		IEC EN 60000 : Environmental	testing
GPS Localization : OPTIONALLatitude90° N - 90° SLongitude180° E - 180° WAccuracyvariableResolution1/512 min		PAINT system Chemical agent resistant coating system Pre-treatment Primer Top coat		MIL-DTL-53072E MIL-DTL-5541F MIL-DTL-530022E MIL-DTL-530039E	 Protect again water jet (IP) Electrostatic discharges 	60529:2001 : 100l/min IP X6 61000-4-2 : 8kV contact, 15kV air

All military colour references available

I/O Connector

D38999/24WD35PN



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