

METEODATA 3000C Weather Station

Automatic METEODATA 3000C Weather Stations are measurement, Storage and Data Transmission equipments designed for outdoor installations in remote and underserved areas, holding inside all the necessary elements in a compact mode, without other external elements, except antennas, transmitters or solar modules.

They are composed by: microprocessor, communications modem, power supply, protection, terminal strip connections, drums, keyboard, display, etc. which are embedded and protected in a metal box, with IP65/IP66 protection, which also incorporates a series of watertight bulkhead for input as well as output connections.



FEATURES

Inputs/Outputs

- Up to 24 input analogue channels.
- Up to 10 digital inputs of micro-relay.
- Up to 6 digital outputs of micro-relay
- 4 digital 16-bit counters (for rain gauges, anemometers and other sensors with pulsed).
- 4 RS232 communications ports, three configurable 422/485 ports (up to 6 communications ports).

General Features

- **Versatility and Communications:** These are units fully programmable allowing sampling periods and store settings for each channel. They allow to communicate with one or more central stations by any of the existing channels, radio, telephone, satellite, GSM, GPRS and Internet.
- **Very high resolution:** The MeteoData 3000C station has an analogue/digital converter (A/D) Sigma Delta type with very high resolution.
- **Storage capacities of data and programs:** 4MB Flash Memory for data (8, 16 or 32 MB optional); 256KB Flash memory for program and 256KB RAM memory.
- **Easy connection:** easy-to-access terminal strip connections, accessible from the frontal panel opening the keyboard door.
- **Surge protection.**

Weather Station METEODATA 3000C

Technical Specifications

Input / Output				
Model	3024C	3016C	3008C	3004C
Differential analog channels ±5000 mV; ±10,000 option mV; ±0/4-20 mA, etc.	24	16	8	4
Analog/digital converter Sigma Delta	19 bits	19 bits	19 bits	19 bits
16-bit digital counters for TTL, rain gauge, etc..	4	4	4	4
Digital outputs opto-coupled micro-relay, 4000 V isolation	6	2 (6 optional)		
Digital Inputs opto-coupled micro-relay, 4000 V isolation	10	2 (10 optional)		
Communication ports	3 RS232C/422/485 configurable		1 RS232C/422/485 configurable	
	1 IRDA/RS232C			
	1 RS232C			
	1 RS232C for GSM/GPRS, Internet (optional)			
Data and applications storage				
Flash Memory / RAM	4, 8, 16, or 32MB for data, 256KB Flash and 256KB of RAM.			
Period of storage and sampling	Configurable for each channel independently sampling: 1 sa 60 min / storage: 1 to 60 min			
Calendar Clock	Optional integrated GPS receiver for high accuracy and stability in the Timing (40ns total accuracy +200 ms fixed delay of sync)			
User Interface				
Front keypad (optional)	18 keys			
LCD alphanumeric display (optional)	4 x 20 characters			
Mounting				
Metal cabinet (IP65/IP66) Dimensions (mm)	430x330x200	400x300x200		
Outside connections	Watertight bulkhead cables for all input/output of the cabinet			
Power				
Internal Rechargeable Batteries	2 or 4 batteries (12V, 7Ah)		1, 2 or 3 batteries (12V, 7Ah)	
Internal Charger	For network 110-220V / 50-60Hz and solar panel			
External Battery Power	Optional			
Protections				
For all connections	Each line of computer input and output circuits have overvoltage protection according to standards: DIN EN 050 020, VDE0170/0171, DIN VDE0165 and TRbF 100.			
Consumption (12 V)				
During the measurement	14mA			
In stand-by	1 mA			
Operating Temperature				
	-30 ° to +70 ° C standard; -40 ° to +70 ° C., Optional			