



### Plug & Play

without any further adjustment, quick and easy to connect and to use

### Always at hand

send your data to the cloud or store it at your own secured network

### Low power data logger

designed to be powered by a solar panel, no external power necessary

### Remote data acquisition

fast and continues remote logging with the integrated GSM module



TECHNICAL SPECIFICATIONS	HD33M.GSM	HD33M-MB.GSM	HD33MT.GSM / HD33MT.3G
Power Supply	7...30 Vdc		18...27 Vdc (from a 12 V solar panel or from a direct voltage power supply)
Power Consumption	< 2 mA during measurement / < 0.8 A peak during GSM activity		< 3 mA during measurement / < 1 A peak during GSM/3G activity
Battery charger from solar panel	With additional external power supply unit		✓
Integrated lead acid battery			optional
Switched power supply output	Active only when external sensors have to be powered		Active only when external sensors have to be powered
Antenna	External, included		
Measuring & logging Interval	1, 2, 5, 10, 15, 30 seconds / 1, 2, 5, 10, 15, 30, 60 minutes		
Internal Memory	Circular management or stop logging if memory is full		
Number of samples (depending on the number of the detected quantities)	from 128,000 to 440,000	from 120,000 to 424,000	from 242,850 to 858,070
Alarm	Acoustic through internal buzzer. Sending of alarm e-mail and SMS.		Sending of alarm e-mail and SMS. Two voltage-free (NO) contact alarm outputs.
Operating Conditions	-40...+70 °C / 0...100 %RH without display -20...+70 °C / 0...100 %RH with display		
Internal clock	✓		High stability ± 2 ppm (0...+40°C)/± 5 ppm (-40...+70°C)
Display	Optional custom LCD		
Connection to PC	USB port with mini-USB connector - Free software		
Dimensions (excluding antenna)	122 x 120 x 56 mm		270 x 170 x 110 mm
Protection Degree	IP67	IP67	IP65
Inputs	5 analog inputs for dedicated Delta OHM sensors	- 1 input for RS485 MODBUS-RTU sensors - 1 contact input	- 4 analog standard inputs - 2 voltage free contact inputs - 1 RS485 MODBUS-RTU input - 1 SDI-12 input - 1 passive T/RH probe
Temperature	✓		✓
Relative Humidity	✓		✓
Atmospheric Pressure	optional internal sensor		optional internal sensor
Solar Radiation	✓		✓
Rainfall quantity	✓	✓	✓
Wind speed and directions	✓		✓

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**Siège social Lyon** / 9 rue de Catalogne - Parc des Pivoles - 69153 Décines Cedex / +33 (0)4 72 15 88 70 / [contact@c2ai.com](mailto:contact@c2ai.com)

**Agence Île de France**  
[paris@c2ai.com](mailto:paris@c2ai.com)

**Agence Est**  
[mulhouse@c2ai.com](mailto:mulhouse@c2ai.com)

**Agence Sud-Ouest**  
[sudouest@c2ai.com](mailto:sudouest@c2ai.com)

**Service Export**  
[export@c2ai.com](mailto:export@c2ai.com)



[contact@c2ai.com](mailto:contact@c2ai.com)



[www.c2ai.com](http://www.c2ai.com)