INDOOR ENVIRONMENTAL MONITORING

with Communication Interface

MeasuringParameters

- Temperature
- Humidity
- BarometricPressure
- Air Velocity

The models are provided with RS232C or RS485 serial output and the management of more than one device connected to a network. In addition, all the models are fitted with an open collector type low-activated configurable alarm output.

The HD2001.1 and HD2001.3 model have three configurable analog outputs: 4...20mA or 0....20mA current output, or 0....10Vdc or 2....10Vdc voltage output. The choice of output type is made by means of the jumpers set on the board.

Wind speed measurement is detected by the HD2001.2 model with a hot-wire probe set on the upper part of the instrument.

The large display with dual indication on all models allows one of the process variables on the first line and the temperature on the second line, to be displayed.

Tables 1 and 4 show the main characteristics of the three models.

HD 2001.1 & HD 2001.2



Table - 1

	Input			Output		
Model	Temp. %RH	Pressure	Air Speed	RS232-RS485 Open collector output	Analog outputs 020m/a, 420mA 010Vdc, 210Vdc	
HD 2001	*	*		*		
HD 2001.1	*	*		*	*	
HD 2001.2	*	*	*	*		
HD 2001.3	*			*	*	

Table - 2

HD2001.1 and HD2001.3 Inputs / analog outputs ratio			
Inputs	Analog outputs		
-20 + 80°C 0 100% RH 600 1100 mbar	420mA 020mA 010Vdc 210Vdc		



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Table 4 - Technical information (@ 24Vac and 25°C)

		HD2001	HD2001.1	HD2001.2	HD2001.3				
Inputs		1152001	112200111	110200112	112200110				
Temperature	Sensor	NTC 10kW							
	Working range								
		± 0.3°C in the range 0+ 7°C							
	Accuracy	± 0.4°C outside this range							
Humidity	Sensor capacity	·							
	%RH working range	598%RH							
	TD working range	range -20 + 80°C							
	Accuracy	± 2.5%RH							
Pressure	Working range	600110							
	Accuracy								
	Fluid contacting the membrane	Air-No							
Wind speed	Type of sensor			Hot-wire					
	Working range			05m/s					
	°C working range			-20+ 80°C					
	Accuracy			± 0.1m/s @25°C					
Outputs									
Communications	Type RS232C and Multidrop RS485								
	Maximum Baud Rate	9600 baud							
Alarm	Type of output Open collector (low-activated)								
	Maximum voltage 30Vdc								
	Maximum power								
Variable		Temperature, %RH, dew point TD, barometric pressure, pressure drop.		Temperature %RH, dew point TD, barometric pressure, pressure drop and wind speed	Temperature, %RH, dew point TD				
Analog	Type of outputs		420mA 020mA 010Vdc 210Vdc		420mA 020mA 010Vdc 210Vdc				
	Load resistance		Current output: 500W max Voltage output: 100kW min		Current output: 500W max Voltage output: 100kW min				
	Resolution		16 bit		16 bit				
Power		24Vac ± 10% 5060Hz (230Vac ± 10% on request)							
Software	_	DeltaMet8							
Environmental Conditions	Temperature range	-20 + 80° C							
	Humidity range 090%RH - (without condensation)								
	Protection degree Electronic IP67								

ORDER CODE:

- **HD2001 :** Temp., relative humidity, barometric pressure indicator. Open collector alarm output & RS232C & RS485 PC connection. DeltaMet8 software for PC connection.
- **HD2001.1:** Active indicator/transmitter of temp. range, relative humidity, barometric pressure with selectable 0...20mA, 4...20mA, 0...10V e 2...10V outputs. Open collector alarm output & RS232C & RS485 PC connection. DeltaMet8 software for PC connection.
- **HD2001.2 :** Temp. range, relative humidity, barometric pressure & wind speed indicator. Open collector alarm output &RS232C & RS485 PC connection. DeltaMet8 software for PC connection.
- **HD2001.3 :** Temp., relative humidity active indicator/transmitter with selectable 0...20mA, 4...20mA, 0...10V & 2...10V outputs. Open collector alarm output & RS232C & RS485 PC connection. DeltaMet8 software for PC connection.
- **HD2001.2.30**: Wall mounting support for HD2001.2.