

## TA2001\* - ENVIRONMENTAL DISPLAY - TRANSMITTERS

Indicators instruments for environmental parameters, for measurement of temperature, relative humidity, barometric pressure and air velocity by hot wire. The whole series has RS232C or RS485 serial outputs for the management of multiple instruments in a network and an alarm output configurable open collector active low.

TA20011 - TA20013 are analog outputs selectable as 4 ... 20mA or 0 ... 20mA current or 0 ... 10Vdc or 2 ... 10Vdc voltage, by jumper pin onto the board.

Air velocity measurement is detected with a hot-wire probe placed on top of the instrument.

A large display with dual indication on all models allows you to view, in the first line, a process variable, in the second line, the temperature.



### TECHNICAL SPECIFICATIONS

		TA20010	TA20011	TA20012	TA20013
Temperature	Sensor	NTC 10 kOhm			
	Range	-20...+80°C			
	Accuracy	+/-0.3°C into range 0...+70°C; +/-0.4°C over			
Humidity	Sensor capacity	300 pF			
	Range %RH	0...100%RH			
	Range TD	-20...+80°C			
	Accuracy	+/-2.0% (10...90%RH); +/-2.5%RH remaining range			
Pressure	Range	600...1100mbar - 600...1100hPa - 60.0...110.0kPa			---
	Accuracy	+/- 0.5mbar @25°C			---
	Fluid contact	Air, non-corrosive gases (no liquids)			---
Velocity	Sensor	---	---	Hot wire	---
	Range	---	---	0...5 m/s	---
	Range °C	---	---	-20...80°C	---
	Accuracy	---	---	+/-0,15 m/s @25°C	---
Output	Serial communication	RS232C and RS485 Multidrop, max 9600 baud rate			
Variables displayed - models	Temperature	*	*	*	*
	%RH	*	*	*	*
	TD dewpoint	*	*	*	*
	Pressure	*	*	*	*
	Air velocity	*	*	*	*
Alarm	Type	Active low open collector, 30VDC max, 200 mW max			
Analog Output	Output type	---	0/4...20 mA, 0/2...10Vdc	---	0/4...20 mA, 0/2...10Vdc
	Load resistance	---	max 500Ohm (current); 100kOhm min (voltage)	---	max 500Ohm (current); 100kOhm min (voltage)
	Resolution	---	16 bit	---	16 bit
Power supply		24Vac ±10% 50...60Hz (on request 230Vac ±10%)			
Protection degree		IP67 Electronic			



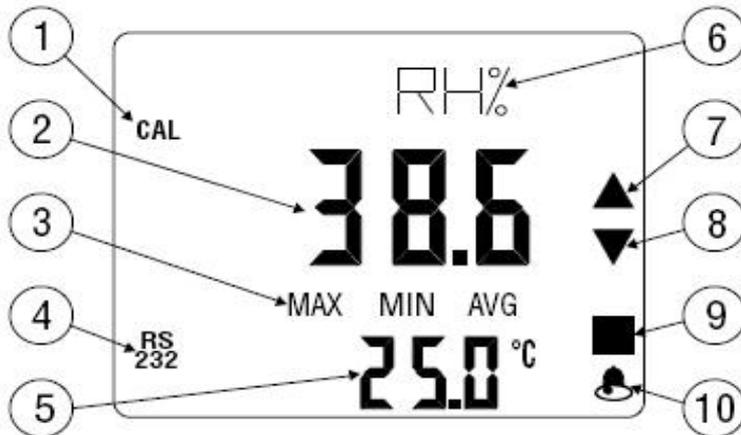
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## TA2001\* - DISPLAY FEATURES



The display constantly shows the measure of two quantities. In line 2 the size can be selected by pressing MEAS, in line 5 at the bottom is always displayed temperature. During measurement, the top line 6 displays the unit of measurement of the main variable; the menu provides information on the active voice.

On the right side of the display there are four symbols:

- the two arrows (7) and (8) light when the pressure detected by the barometric sensor differs by at least 1 mbar from that measured 6 hours before;
- The arrow with the edge (9) is the alarm indication of the pressure drop and turns on when, in the last 6 hours there was a pressure drop greater than or equal to the BAR DROP value set in the menu in the range 1 ... 9 mbar;
- The bell symbol (10) lights up when any of the alarms is exceeded.

Symbols

- CAL (1) turns on during calibration of the RH sensor
- MAX MIN AVG (3) indicate that the principal measure (2) is the maximum (MAX), the minimum (MIN) or average (AVG) since the last reset.
- RS232 (4) lights up when the unit is connected to a PC.



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