

ATC and ATD-series Professional environmental portable meters



ATC and ATD-series **portable measuring instruments**

ATAL portable instruments are designed for the accurate measurement of key physical parameters such as **temperature, relative humidity, dew point, barometric pressure, and barometric pressure trend over the previous three hours.**

The ATC and ATD-models offer identical measurement capabilities; the ATD-series additionally features integrated data logging.

All measured values are clearly shown on a **dual-line LCD display**, allowing simultaneous observation of current readings and additional information. Minimum and maximum values, as well as manually stored readings, can be easily recalled on the display.

Alarm functions

For each measurement channel, **upper and lower alarm limits** can be individually configured.

When a preset limit is exceeded, the alarm condition is clearly indicated by a **flashing value on the display.**

If enabled, the instrument also provides an **intermittent audible alarm**, which can be muted by the user if required.

Data Logging (ATD-series)

Measured values can be stored either automatically or manually in the internal memory.

- Automatic logging with user-selectable intervals from **10 seconds to 24 hours**
- **Non-cyclic mode**, where logging stops once the memory is full
- **Cyclic mode**, where the oldest data is overwritten when memory capacity is reached
- Storage capacity **for up to 16,000 measurement records**

In manual mode, the current value can be stored at any time by pressing the **HOLD / ENTER** key.

Recorded data can be transferred to a PC via the USB interface.

Data analysis

Stored measuring data can be downloaded to a PC for further analysis.

Measurement results can be displayed in Vision software as tables or graphs, printed, or exported in **XLS format** for further processing in spreadsheet or analysis software.

Key features



Can be supplied with a traceable calibration certificate in accordance with EN ISO/IEC 17025

Power supply



PS-12VDC
Power adapter 12 Vdc



ATC-AC02
NiMH rechargeable accumulator

Accessories series D



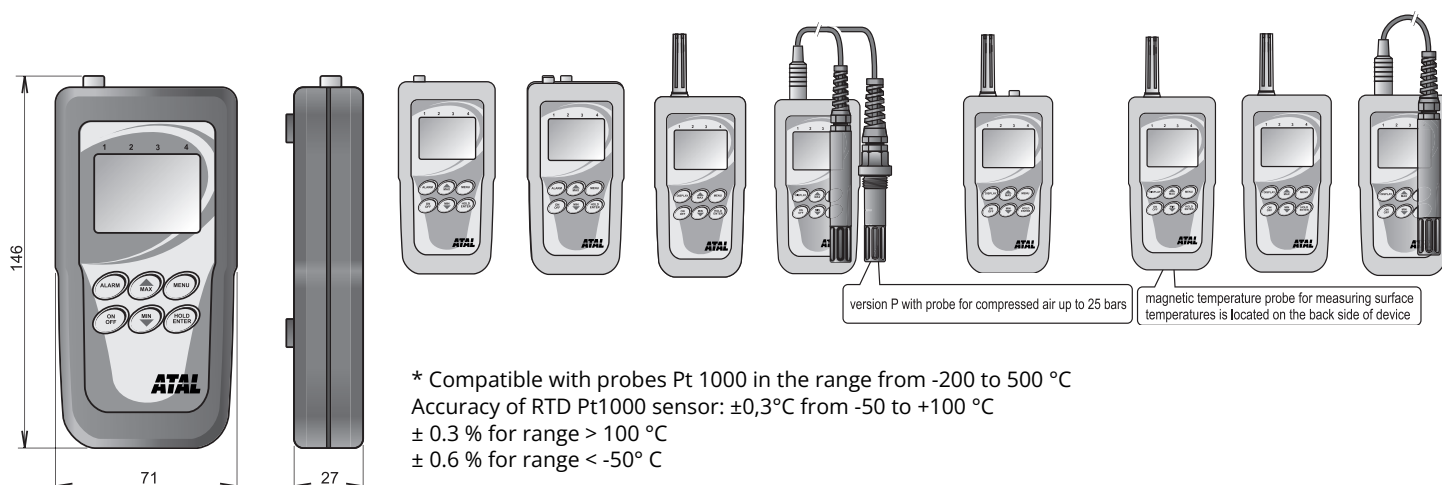
The ATC- and ATD portable meters are supplied in a protective case for storage and transport, with dedicated space for accessories.



ATD-series will be delivered with USB cable

Model overview

Measured values		Temperature		Temperature + Relative humidity					Temperature + Relative humidity + ATM. pressure	
Model	Without recorder			ATC-06	ATC-07	ATC-07P	ATC-08	ATC-11	ATC-09	ATC-10
	With recorder	ATD-12	ATD-13	ATD-06	ATD-07	ATD-07P	ATD-08	ATD-11	ATD-09	ATD-10
Temperature internal	Range	-		-10 to +60 °C	-30 to 105 °C		-50 to 250 °C		-10 to +6 0°C	-30 to 105 °C
	Accuracy	-		± 0.4 °C in range -50 to +10 0°C, ±0,5 % for T > 100 °C						
Relative humidity	Range	-		5 to 95 % RV	0 to 100 % RV		5 to 95 % RV		0 to 100 % RV	
	Accuracy	-		±2,5 % RV in range 5-95 % for 23 °C						
Temperature external	Range	Pt1000 -200 to 500 °C			-			Ni1000 -50 to 250 °C		-
	Accuracy	± 0.3°C from -50 to +100 °C			-			± 0.2 °C from -50 to +100 °C		-
Dew point	Range	-		-40 to +60°C						
	Accuracy	-		± 1.5°C for temperature T< 25°C a RV> 30%						
Barometric pressure	Range			-					800 to 1100hPa	
	Accuracy			-					±2 hPa for 23°C	
Power	Battery	9 V								
	Adapter	12 Vdc								
Typical battery life in month		6		4					2	
Protection class		IP 20								



Accessories and external probes

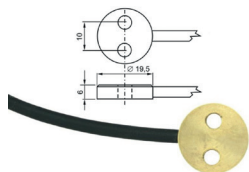
External temperature probes

Cable-mounted temperature probes are designed for accurate temperature measurement in dedicated applications. Standard cable lengths: 1, 2, 5 and 10 m.

To maintain specified accuracy, cable lengths exceeding 20m are not recommended.

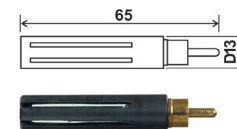
Unless otherwise specified, all probes comply with Class A accuracy.

External probe variants



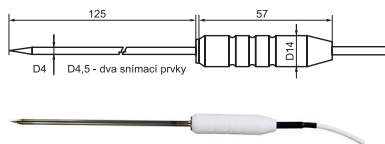
Surface temperature probe (brass)

Brass probe for direct surface temperature measurement. Not suitable for humid or wet environments. Measuring range -30 to +200 °C



Air temperature probe (fast response)

Fast-response probe for air temperature measurement. Optimised for rapid and accurate readings. Not suitable for humid or condensing environments. Measuring range -30 to +80 °C



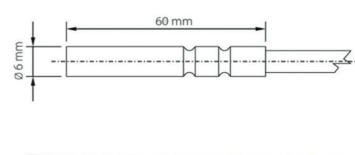
Penetration probe for food applications

Hand-held penetration probe with pointed tip for food industry use. Teflon handle and silicone cable. Protection class IP67. Measuring range -30 to +200 °C



Surface temperature probe (general purpose)

Measuring range -30 to +150 °C



Immersion probe (IP68)

Watertight temperature probe for continuous monitoring in liquids. Protection class IP68.



Surface temperature probe (low range)

Measuring range -30 to +60 °C

Calibration and adjustment accessories

Verification (calibration) and adjustment of relative humidity instruments with external probes can be performed using dedicated accessories. These solutions provide a cost-effective alternative to full humidity calibration chambers.



Humidity standards

ATXV-AC16 –
humidity standard 10 % RH
set (5 pcs) with application pads

ATXV-AC17 –
humidity standard 80 % RH
set (5 pcs) with application pads

Calibration chamber

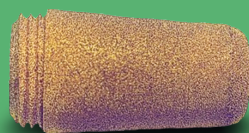
ATXV-AC15 –
airtight vessel for calibration and
adjustment of humidity probes

Sensor protection filters



ATS-AC12P (PTFE filter)

Enhanced protection against splashing water
Not suitable for condensing environments
Filtration rating: 0.025 mm



ATXV-AC19 (Sintered bronze filter)

Suitable for moderately aggressive environments
Maintains airflow while protecting the sensor
Filtration rating: 0.025 mm



ATS-AC12B (Stainless steel mesh filter)

Designed for moderately dusty environments
Robust construction for industrial applications
Filtration rating: 0.025 mm



Your distributor

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