WISE AIR 4.0®
MEASURE TO MANAGE

2026 · PRODUCT BROCHURE

Dew Point Sensors

WADS-205

Dew Point Monitor

WADS-205 · 206 · WALL-MOUNTED, TOUCH SCREEN

Dew point on a colour touch screen at the dryer, with an optional red/green light and buzzer that warn before moisture reaches the plant.

Dew point | Temperature | Humidity | Pressure



−80...+60
°C td range (205 / 206)

±2 °C td
+20 ... −60 °C td

Alarm
red/green light + buzzer (-B, -C)

220 V AC
wall-mounted, 10 W

OVERVIEW

See the dew point at the dryer. Get warned when it drifts.

The WADS-205 and WADS-206 are wall-mounted dew point monitors for compressed air. A short sample line from the pipe feeds the built-in sensor, and the colour touch screen shows dew point, temperature and relative humidity at a glance. WADS-205 covers −60 … +60 °C td for refrigerant and membrane dryers; WADS-206 covers −80 … +20 °C td for desiccant dryers. Variants -A and -C add a pressure sensor and show both pressure dew point and atmospheric dew point; variants -B and -C add a red/green light and buzzer that react to the alarm threshold you set on the screen.



MEASURES

- Dew point
- Temperature
- Humidity
- Pressure

Colour touch screen

Live dew point, temperature and humidity; alarm threshold set directly on the screen.

Light and buzzer alarm

Variants -B and -C: green while dry, red light and buzzer when the dew point crosses the threshold.

Pressure and atmospheric DP

Variants -A and -C add a MEMS pressure sensor and show pressure and atmospheric dew point.

Drift-compensated sensor

Polymer film sensor with up to 9-point dew point calibration and multi-point temperature compensation.

Fast response

20 … 40 s from dry to wet; 1 … 3 min from wet to dry (63 %/90 %).

Plug into the mains

220 V AC, 10 W. Wall-mount near the dryer with a 6 mm sample line — no separate power supply.

APPLICATIONS

- Dew point display at the dryer outlet
- Local alarm for dryer and drain faults
- Refrigerant, desiccant and membrane dryers
- Dry air for food, pharma and paint lines
- Checking ISO 8573-1 moisture class targets
- Nitrogen and other technical gases

PRESSURE DEW POINT

Dew point rises with pressure. Variants -A and -C show both values, so you can compare pressure dew point with atmospheric dew point at a glance.

PRODUCT ANATOMY

Inside the WADS-205



Wall-mounted enclosure
Mount upright near the sampling point, glands and gas inlet at the bottom.

Colour touch screen
Dew point, temperature and RH; variants -A and -C add pressure and atmospheric dew point.

Three-tab menu
Value, Sensor Setting and MENU. Set the alarm threshold on the screen.

Cable glands
220 V AC power cable and signal wiring.

Ø 6 mm sample gas inlet
Stainless-steel quick connector for a 6 mm sample line, flow > 1 L/min.

TECHNICAL DATA

Specifications

MEASURING RANGE

Dew point, WADS-205	**−60 … +60 °C td**
Dew point, WADS-206	**−80 … +20 °C td**
Temperature	**−40 … +100 °C**
Pressure (-A, -C)	**0 … 15 bar**

DEW POINT ACCURACY (AIR, N_2)

+20 … −60 °C td	**±2 °C td**
−60 … −80 °C td	**±3 °C td**

TEMPERATURE ACCURACY

0 … +50 °C	**±3 °C**
Other range	**±5 °C; higher accuracy on request**

PRESSURE SENSOR (-A, -C)

Accuracy at 23 °C	**±3 % FS**
Temperature effect	**±0.01 bar / 10 °C**

RESPONSE (63 % / 90 %)

−50 → +20 °C td	**20 … 40 s**
+20 → −50 °C td	**1 … 3 min**
Conditions	**20 °C, 1 bar(g), 4 L/min**

DISPLAY, ALARM, OUTPUTS

Display	**Colour touch screen**
Alarm (-B, -C)	**Red/green status light and buzzer**
Digital output	**RS485 Modbus RTU**

POWER AND ENVIRONMENT

Supply	**220 V AC, 10 W**
Ambient	**−30 … +70 °C, 0 … 95 % RH**
Storage	**−40 … +80 °C**

PROCESS

Sample gas flow	**> 1 L/min**
Gas connection	**Ø 6 mm stainless-steel quick connector**
Sensor protection	**Stainless-steel sinter filter, 30 … 45 µm**
EMC	**IEC 61326-1**

DEW POINT
±2 °C td
+20 … −60 °C td

LOW RANGE
±3 °C td
−60 … −80 °C td (WADS-206)

RESPONSE
20 … 40 s
dry to wet, 63 % / 90 %

Calibration Every monitor is calibrated before dispatch and ships with a calibration certificate. Recommended recalibration every 2 years.

MODEL SELECTION AND INSTALLATION

Pick the variant. Mount it at the dryer.

Choose your variant

CODE	RANGE °C TD	PRESSURE + ATM. DP	LIGHT + BUZZER
205	−60 … +60	–	–
205-A	−60 … +60	✓	–
205-B	−60 … +60	–	✓
205-C	−60 … +60	✓	✓
206	−80 … +20	–	–
206-A	−80 … +20	✓	–
206-B	−80 … +20	–	✓
206-C	−80 … +20	✓	✓

WADS-205 for refrigerant and membrane dryers; WADS-206 for desiccant dryers down to −80 °C td.

PRESSURE DEW POINT VS ATMOSPHERIC DEW POINT

Dew point rises with pressure. Air with an atmospheric dew point of −10 °C td, compressed to 2 bar absolute, has a dew point of about −1 °C td. Variants -A and -C show both values, so you always compare like with like.

Which WiseAir dew point product

YOU NEED	CHOOSE
Wall monitor with screen and alarm	WADS-205/206
In-line sensor with display	WADS-207/208
In-line sensor for PLC or logger	WADS-201… 204
Dew point below −80 °C td	WADS-204

All WiseAir dew point products connect to the WASM-604 Smart Monitoring platform through the WADL-301 data logger.

ISO 8573-1 moisture classes

CLASS	PDP ≤	MODELS
1	−70 °C td	WADS-206
2	−40 °C td	WADS-205, WADS-206
3	−20 °C td	WADS-205, WADS-206
4	+3 °C td	WADS-205, WADS-206
5	+7 °C td	WADS-205, WADS-206
6	+10 °C td	WADS-205, WADS-206

Water vapour classes of ISO 8573-1:2010. Typical: refrigerant dryer class 4–6, desiccant dryer class 1–3.

1

Mount the monitor

Upright on a flat, vibration-free wall near the sampling point, out of sun, rain and heat; −30 … +70 °C.

2

Run the sample line

From a valve on top of a horizontal pipe after the dryer: short 6 mm stainless or PTFE line to the inlet.

3

Set the flow

Open the valve slowly, set more than 1 L/min and check every fitting for leaks — a leak reads falsely wet.

4

Power and set alarm

Connect 220 V AC with protective earth. On -B/-C set the alarm threshold under Sensor Setting.

ORDERING INFORMATION

WADS-205	Dew point monitor, −60 … +60 °C td
WADS-205-A	As WADS-205, with pressure sensor: pressure and atmospheric dew point
WADS-205-B	As WADS-205, with red/green light and buzzer alarm
WADS-205-C	As WADS-205, with pressure sensor, light and buzzer
WADS-206	Dew point monitor, −80 … +20 °C td
WADS-206-A	As WADS-206, with pressure sensor: pressure and atmospheric dew point
WADS-206-B	As WADS-206, with red/green light and buzzer alarm
WADS-206-C	As WADS-206, with pressure sensor, light and buzzer

OPTIONS AND ACCESSORIES

WADL-301 data logger	Records values, sends them to WASM-604
WASM-604 Smart Monitoring	Online dashboards, alarms and reports

IN THE BOX

- Dew point monitor, as ordered
- Power cable
- Calibration certificate
- User manual

CONNECT TO WISEAIR 4.0

WADS-205 / 206
dew point · temperature · RH

RS485 Modbus RTU

WADL-301
WiseAir data logger

Ethernet · 4G

WASM-604
dashboards, alarms, reports

WISE AIR 4.0
MEASURE TO MANAGE

See the dew point. Hear the alarm.

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