



air**SECURE** · dewguard**PRO**

INNOVATIVE DEWPOINT MEASUREMENT FOR COMPRESSED AIR SYSTEM FROM -20 °C TO -60 °C
MONITORING · CONTROL · SAFETY

PRESSURE DEW POINT MEASUREMENT

AIRSECURE • dewguardPRO

if compressed air is not dried before feeding into the pipeline network or the installed dryer is malfunctioning, then it results into substantial amount of condensate formation. this leads to problems in valves, pneumatic components and eventually results in loss of production. hence, pressure dew point is one of the key parameters for the quality of compressed air and should be measured in every plant.

the **PRO** air **AIRSECURE** and **dewguardPRO** product series offer the ideal devices to monitor the compressed air quality, to give an alarm in time and to stop the flow by itself when needed, through an optional ball valve.

in order to get reliable readings every time, the sensor is „**HEATED**“ for every 13 hours in succession. hence any precipitation of humidity on the sensor, which can distort the results, is avoided.

besides stationary instruments, there are also suitable transmitters in the series for signal transfer to higher level controls, portable devices for a flexible on-site application as well as an extensive range of accessories.

all **PRO** air products are ready to assemble items, including all necessary leads supplied, and can be immediately fitted and put to use.

-20 °C OR -40 °C AIRSECURE TPK



AIRSECURE TPK 20



AIRSECURE TPK 40

AIRSECURE TPK

AIRSECURE TPK 20

measuring range: -20 ... +40 °C dtp

precise, long term stable, dew point measurement for cold dryer, membrane dryer, adsorption dryer

long calibration interval of two years and dew formation safe

on-site display of dew point in the plant, swappable between °C and °F

integrated sensor for monitoring the network pressure

two adjustable alarm values

two potential free relay contacts, analogue output

integrated measuring probe (high grade stainless steel-polymer sensor) with standard measuring chamber

regular „heating“ of the sensors prevents precipitation on the measuring surface

stainless steel-sinter filter as sensor protection

integrated diverting throttle

simple mounting, plug-in over usual compressed air couplings, completely ready-to-assemble

AIRSECURE TPK 40

measuring range: -40 ... +40 °C dtp

-20 °C OR -60 °C dewguardPRO DUO · FIX · FLEX



dewguardPRO 20 duo
dewguardPRO 60 duo



dewguardPRO 20 fix
dewguardPRO 60 fix



dewguardPRO 20 flex
dewguardPRO 60 flex

dewguardPRO

dewguardPRO 20 duo · fix · flex

measuring range: -20 ... +40 °C dpt

precise, long term stable dew point measurement for cold dryer, membrane dryer, adsorption dryer

long calibration interval of two years and dew formation safe

with dew point, pressure and temperature display and alarm management

two adjustable alarm levels

two potential free relay contacts, analogue output, digital interface

regular „heating“ of the sensor prevents deposition on the measuring surface

stainless steel-sinter filter as sensor protection

simple mounting, completely ready-to-assemble

dewguardPRO 60 duo · fix · flex

measuring range: -60 ... +40 °C dpt

dewguardPRO duo

connection over external dew point and pressure sensor

dewguardPRO fix

connection over 1/2" threads directly on to the compressed air line or over the usual compressed air coupling through an optional measuring chamber

dewguardPRO flex

connection over an usual PTFE-compressed air hose, over which a partial flow is led to the internal measuring chamber of the device
ideal for assembly in regular switchgear cabinet

-20 °C OR -60 °C AIRSECURE TPT · TPW



AIRSECURE TPT 20
AIRSECURE TPT 60



AIRSECURE TPW portable 20
AIRSECURE TPW portable 60

AIRSECURE TPT

AIRSECURE TPT 20

measuring range: -20 ... +40 °C dtp

compact transmitter for measurement of pressure dew point directly in process

long calibration interval of two years and dew formation safe

analogue output, alternative serial interface

regular „heating“ of sensors to prevent precipitation on the measuring surface

gas sealed probe head of stainless steel as sensor protection

simple mounting, completely ready-to-use

AIRSECURE TPT 60

measuring range: -60 ... +40 °C dtp

AIRSECURE TPW PORTABLE

AIRSECURE TPW portable 20

measuring range: -20 ... +40 °C dtp

precise on-site dew point measurement for cold dryer, membrane dryer, adsorption dryer

serial USB-interface

stainless steel-sinter filter as sensor protection

scope of supply: humidity probe with regulation unit, system carry case, measuring chamber, diverting throttle, software PCREC, 2 x power supply unit and documentation

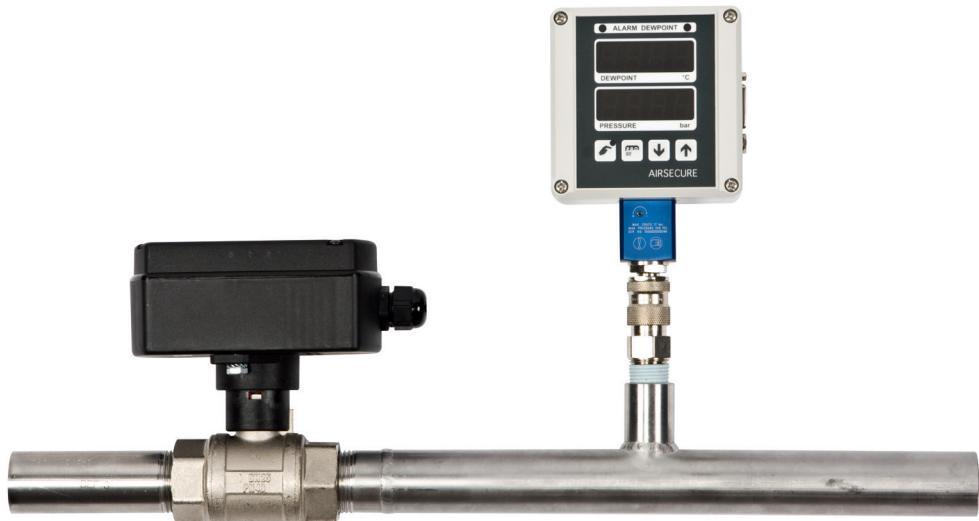
AIRSECURE TPW portable 60

measuring range: -60 ... +40 °C dtp

ACCESSORIES

AIRGATE

TP



AIRGATE TP

AIRSECURE TPK 40

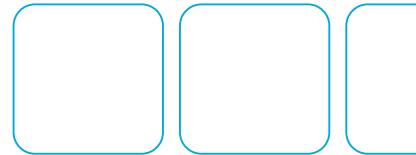
AIRGATE TP

the automatically operated ball valve with control circuit protects the production in case of a defect in dryer. as soon as alarm values set in the dew point instrument is reached, an electrically operated ball valve closes and protects the production from humidity. to avoid pressure impacts in the compressed air network, the ball valve closes slowly (30 seconds).

of course, all signals, which are given out by the dew point measuring instrument can be simply picked up from a junction box. the system is available in three nominal sizes for the ball valves: 1/4", 1/2" and 1" and supplied in completely ready-to-use condition.

(scope of supply without dew point instrument)

ACCESSORIES AIRSECURE RANGE OF PRODUCTS



CONNECTION CABLE 15-PIN WITH TERMINAL ADAPTER

- connection cable 2 m
- one side with 15-pin special plug
- other side with screw terminals in housing
- suitable for simple connection of external components
- housing IP 54
- terminal connections M20

EXTERNAL ALARM UNIT WITH BLINKING LIGHT

- red blinking light
- loud piezo-signal sensor (disconnectable)
- with wall holder
- 10 m connection cable with 15-pin sub-D-plug

SOFTWARE PC LOG FOR DATA RECORDING

- recording of measured value through a PC
- efficient graphical evaluation of the pressure dew point process curve

UNIVERSAL MEASURING CHAMBER

- connection over compressed air plug NW7 or alternatively 1/4" internal threads
- integrated fixed diversion throttle with capillary line for preventing back flow diffusion
- with sinter sound muffler
- pressure range: 0 ... 16 bar
- temperature range: -20 ... +50 °C

EXTERN RELAY BOX

- relay box with 4 relays
- terminal board DB 25
- connection cable 2 m
- compatible to TPK and dewguardPRO

REFERENCE CELLS

precisely calibrated capacitive humidity measuring unit – humidity reference cells, earlier also known as „salt pots”, works on the principle of physical chemical process

- simple handling
- affordable calibration process
- different models for the overall application range of 11 % rH to 97 % rH



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**INNOVATIVE MEASURING SYSTEM
FOR COMPRESSED AIR APPLICATIONS**