

# GMA 4100-DP Control Panel

## Dew Point



- Reading of dew point values on a 3-digit display
- Menu display
- 3 variably adjustable alarm thresholds
- Peak value memory
- Adjustable relay functions: NC / NO contact, open-circuit / closed circuit
- Alarm hystereses prevents "flickering" of relays
- 4 - 20 mA analog output signal

# GMA 4100-DP Control Panel

The GMA 4100-DP continuously provides information on the measured dew point level, exceeded alarm thresholds and its operational status. As soon as the dew point exceeds one of the three pre-set levels, the GMA 4100-DP gives a warning by means of the LED display, the console mounted horn/strobe, and controls the relevant alarm relays. In addition to this, the GMA 4100-DP provides the measurement value as an analog output signal for further evaluation. The GMA 4100-DP is easy to operate and maintenance-free. The dew point sensor is self calibrating and lasts for years. Should unexpected failures or system faults occur, the comprehensive failure recognition allows a quick and specific service.

## Alarm points

Each alarm can be adjusted separately. Relay chatter is eliminated with the adjustable alarm delay. The alarm point values can be freely adjusted using the keypads on the controller.

## Alarm relays

The controller provides four voltage-free relays for the three alarms and one fault warning. The relays may be used to control additional alarm devices like lights or horns.

## Additional features

The 4100 control panel stores peak values and offers an additional 4-20 mA output.

The operation and performance of Vaisala dew point transmitters is unique. The lasting high performance is achieved using Vaisala DRYCAP® polymer sensor technology, which incorporates innovations like the patented auto calibration feature and sensor purge. These result in dew point measurement with excellent long-term stability, i.e. very small drift. This in turn means very low maintenance needs and costs, which is important in equipment like small-sized air dryers.

# Technical Data

## GMA 4100-DP

### Climate Conditions For Operation

32 to 131°F (0 to +55°C), 0 to 99 % r.h.

### Output signals Analog Outputs for Measured Value

4 to 20 mA, maximum load 300

### Relays Maximum Switch Voltage

250 VAC 50/60 Hz or 250 VDC

### Maximum Switch Current

4 A AC/DC

Relay outputs and mains entry are operation insulated

### Maximum Switch Performance

1,000 VAC

### Protective separation

By safety transformer

### Protective insulation

As per EN 61010 up to over voltage category III and soiling degree 2

### Dew Point Temperature Range

-60 to +60°C

### Power Source

24 VDC wall pack

### Dimensions

12x12x3.5 inches (304.8x304.8x88.9 mm) (WxHxD)

### Alarms

3 adjustable alarm points  
1 fault alarm

### Alarm functions

Hysteresis adjustable  
Delay-time 0 to 2 minutes  
Alarm thresholds completely adjustable (above zero only)

### Relay outputs

4 voltage-free relays for alarm and fault  
Normally closed contact (NC)  
Normally open contact (NO)  
Load: 250 V AC, 4 A

### Display

3-digit LED display  
1 LED green – operational status  
1 LED yellow – fault  
3 LEDs red – alarm

### Function keys

Push-button operation for alarm points, function test, and relay test

*Specifications subject to change without notification*

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