

## FA 415 / FA 416 dew point sensor (-20 ~ +50 °C<sub>td</sub>)



**FA 415**

Dew point sensor ideal for refrigerant dryers. Loop powered 4~20 mA output.



**FA 416**

Dew point switch with relays and LED indication

The CS dew point transmitter **FA 415 / FA 416** provides reliable and long term stable dew point monitoring in industrial applications. With these new models dew point measurement in refrigerant dryers becomes affordable and can replace traditional temperature measurement which often couldn't tell the real dew point. **FA 415** outputs the measurement value through the loop powered 4 – 20 mA signal.

The model **FA 416** is designed as a dew point switch, featuring a dew point distance monitoring, triggering an alarm when the dew point distance (ambient temperature – dew point temperature) is below a programmed limit. Alternatively this sensor can be programmed to monitor a dew point level (e.g. +6 °C for refrigerant dryers) or the relative humidity.

An alarm will activate the internal solid state relays of the sensor and the bright LED will change from green to red color.

Order no.	Description
0699 0415	FA 415, dew point sensor including M12 connector (straight type) -20 ~ +50 °C, G 1/2" thread
0699 0416	FA 416, dew point switch including M12 connector (straight type) -20 ~ +50 °C, G 1/2" thread (alarm pre-programmed ex factory)
0553 0104	Connection cable 5m, 5 pole
0553 0105	Connection cable 10 m, 5 pole

### Features

- ◆ Affordable dew point transmitter for mid range applications such as refrigerant dryer monitoring
- ◆ Long term stability
- ◆ IP65 casing provides robust protection in rough industrial environment
- ◆ Very fast response time ensures safe and reliable indication whenever dew points are out of valid ranges
- ◆ Can be installed directly into dryers through G 1/2" thread
- ◆ High accuracy of 1~ 2 °C dew point
- ◆ On site recalibration and check with CS calibration kit

### Technical data FA 415 / FA 416

Measuring range	-20 ~ +50 °C dew point 0~100 % rH -30 ~ 70 °C
Accuracy	1 ~ 2 °C dew point (see table below)
Pressure range	-0.1 ~ 1.6 MPa
Power supply:	10 ~ 30 VDC
Ambient conditions	0 ~ 50 °C
Response time t <sub>95</sub>	< 30 sec (descending) < 10 sec (ascending)
Output signal	4 ~ 20 mA two-wire (FA 415) 60 V, 0.5 A Relay (FA 416)
Connection	M12, 5 pole
Casing	Zinc alloy, PC + ABS
Classification	IP65
Process connection	G 1/2" thread (ISO 228/1)

