DATASHEET

ANP115

Vaisala · Authorized Partner

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VAISALA

ANP115 Analog Input Probe



Features

- Converts one current, voltage, or contact input to digital output
- Compatible with Vaisala VDL200 data logger
- Easy configuration with Insight PC software
- Preconfigured door switch model available
- Optional M8 field connector kit
- Traceable to SI units through national metrology institutes

Connect a wide range of analog sensors through ANP115 Analog Input Probe to VDL200 data logger. ANP115 converts current, voltage, or contact input to VDL200 compatible digital format. This enables recording the data to your Vaisala monitoring system.

Expand your monitoring capability

ANP115 is a simple solution for integrating more parameters to your Vaisala monitoring system. Add measurements such as differential pressure, flow, fluid level, electrical properties, gas concentrations, and many more.

ANP115 provides several installation options. The standard ANP115 model has open wires and an M8 field connector kit is available. A door switch model is also available and requires no configuration.

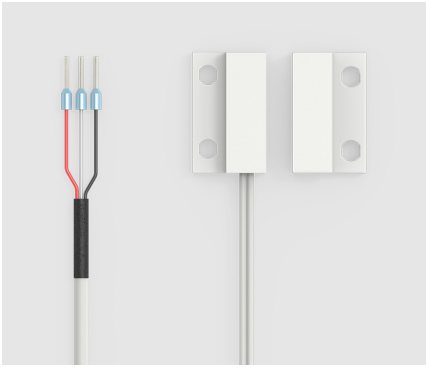
Versatile configuration

Easily configure ANP115 to match the properties of your analog sensor using Vaisala Insight software.

Based on the analog sensor, choose from a wide selection of parameters and measurement units. You can freely set the scaling of the analog signal.

ANP115 also supports a wide range of passive and active contacts.

ANP115 can also be configured to supply operating power to the analog sensor.



ANP115 open wires model and door switch model

Technical data

Operating environment

Operating environment	Indoor use
Use in wet location	No
Operating humidity	0–100 %RH, non-condensing
IP rating of probe body	IP65
Operating temperature	
Open wires model	−40 ... +60 °C (−40 ... +140 °F)
Door switch model [1]	−20 ... +60 °C (−4 ... +140 °F)

1) *Magnetic reed switch wires must be fixed in place.*

Powering

Operating voltage [1]	5-28 V DC
Powering from VDL200 data logger	
Operating voltage	15 V DC
Output voltage	15 V DC
Current consumption	max. 30 mA

1) *This table shows the powering provided to the analog sensor by Vaisala host devices. If additional power is needed, an external powering device is needed for the analog sensor.*

Inputs and outputs

Digital output	RS-485 2-wire half duplex, supports Modbus RTU
PC interface	Vaisala Insight PC software, version 1.3.0 or newer [1]
Open wires model [2]	
Current input:	
Available ranges	4-20 mA, 0-20 mA, scalable
Resolution	300 nA
Accuracy of current input at +23 °C (+73.4 °F)	0.03 mA
Temperature dependence	±0.015 % / °C full scale
Input impedance	50 Ω
Overload protection	30 mA max. (reverse polarity protected)
Voltage input:	
Available ranges	0-5 V, 0-10 V, scalable
Resolution	200 µV
Accuracy of voltage input at +23 °C (+73.4 °F)	0.015 V
Temperature dependence	±0.005 % / °C full scale
Input impedance	40 kΩ
Overload protection	30 V (reverse polarity protected)
Boolean input:	
Functions	Supports both passive and active contacts, can be configured to normally open or normally closed.
Preconfigured door switch model	
Open	Distance from magnet > 15 mm (0.59 in)
Closed	Distance from magnet < 15 mm (0.59 in)

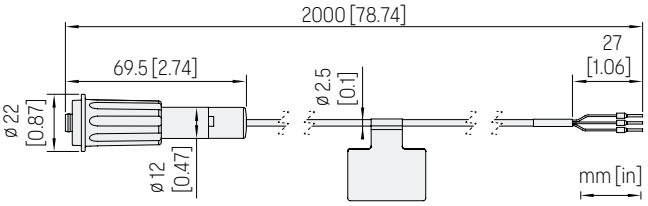
1) *Vaisala Insight software is available for download at vaisala.com/insight.*
2) *Configurable to current input, voltage input, or boolean input.*

Compliance

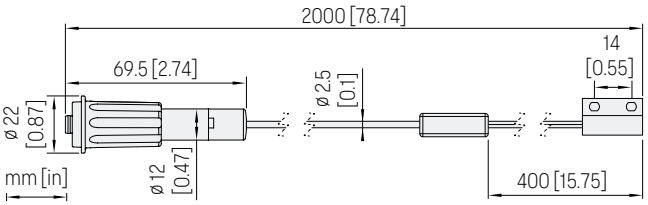
EU directives and regulations	EMC Directive (2014/30/EU) RoHS Directive (2011/65/EU) as amended by 2015/863
Electromagnetic compatibility (EMC)	IEC/EN 61326-1, industrial environment EN 61000-6-2 EN 61000-6-4 FCC part 15 B, Class B ICES-3 / NMB-3 (Class B)
Compliance marks	CE, China RoHS, KC, RCM

Mechanical specifications

Weight	25 g (0.88 oz)
Materials	
Probe body	PC/ABS blend
Cable jacket	Polyurethane (PU)
Connectors	
Probe connector	4-pin male M8 (IEC 60947-5-2)
Analog input connection	Open wires or 4-pin male M8 (IEC 60947-5-2)
Door switch	Magnetic reed switch wire connections



Open wires model dimensions



Door switch model dimensions

Accessories

USB cable for PC connection	219690

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