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FICHA TECNICA

# ANP115

Vaisala · Authorized Partner

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### 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.

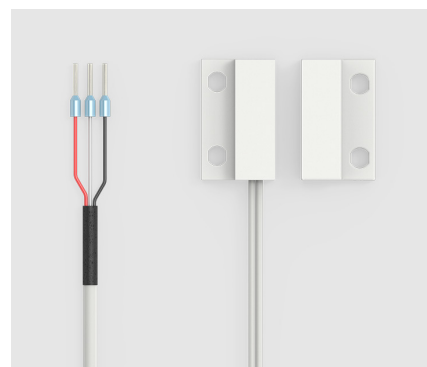
### Versatile configuration

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                             |
| <b>Operating temperature</b>    |                                  |
| Open wires model                | –40 ... +60 °C (–40 ... +140 °F) |
| Door switch model <sup>1)</sup> | –20 ... +60 °C (–4 ... +140 °F)  |

<sup>1)</sup> Magnetic reed switch wires must be fixed in place.

## Powering

|                                         |            |
|-----------------------------------------|------------|
| Operating voltage <sup>1)</sup>         | 5–28 V DC  |
| <b>Powering from VDL200 data logger</b> |            |
| Operating voltage                       | 15 V DC    |
| Output voltage                          | 15 V DC    |
| Current consumption                     | max. 30 mA |

<sup>1)</sup> 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 <sup>1)</sup> |

|                                                |                                                                                                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Open wires model <sup>2)</sup></b>          |                                                                                                   |
| 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. |

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| <b>Preconfigured door switch model</b> |                                        |
| Open                                   | Distance from magnet > 15 mm (0.59 in) |
| Closed                                 | Distance from magnet < 15 mm (0.59 in) |

<sup>1)</sup> Vaisala Insight software is available for download at [vaisala.com/insight](https://vaisala.com/insight).

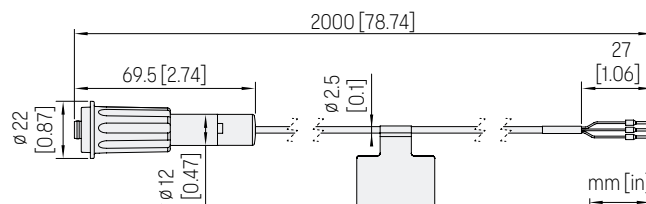
<sup>2)</sup> Configurable to current input, voltage input, or boolean input.

## Compliance

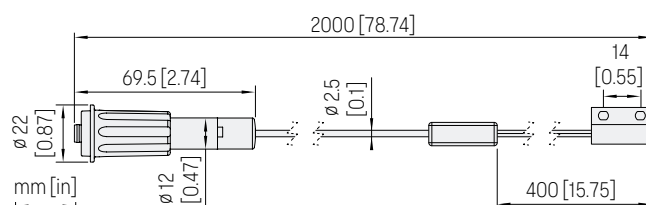
|                                     |                                                                                                                              |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------|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

## Mechanical specifications

|                         |                                             |
|-------------------------|---------------------------------------------|
| Weight                  | 25 g (0.88 oz)                              |
| <b>Materials</b>        |                                             |
| Probe body              | PC/ABS blend                                |
| Cable jacket            | Polyurethane (PU)                           |
| <b>Connectors</b>       |                                             |
| 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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