

# Conductive Sensors Level Probes Types VN, VNY, VPC, VPP



- 1 to 4 electrodes
- Isolated or unisolated electrodes
- Cable or screw connection
- 1/2", 1" or 1 1/2" without pipe thread according to ISO 228/1-Gxxx"



## Product Description

Level sensor for measuring the level of conductive liquids, i.e. max./min. control of charging or discharging. The function is determined

by the amplifier relay used. The sensors are delivered with standard length electrodes - these are cut off to suit the application.

## Ordering Key

**VPC 110**

Type \_\_\_\_\_  
 Housing material \_\_\_\_\_  
 Number of electrodes \_\_\_\_\_  
 Thread \_\_\_\_\_

## Type Selection

| Pipe thread | Electrode isolation | Housing Material | Ordering no. 1 electrode | Ordering no. 2 electrodes | Ordering no. 3 electrodes | Ordering no. 4 electrodes |
|-------------|---------------------|------------------|--------------------------|---------------------------|---------------------------|---------------------------|
| 1 1/2"      | No                  | Nylon 6          | <b>VN 1</b>              | <b>VN 2</b>               | <b>VN 3</b>               | <b>VN 4</b>               |
| 1 1/2"      | No                  | Nylon 6          | <b>VNY 1</b>             | <b>VNY 2</b>              | <b>VNY 3</b>              | <b>VNY 4</b>              |
| 1 1/2"      | Polyethylene        | Nylon 6          | <b>VNI 1</b>             | <b>VNI 2</b>              | <b>VNI 3</b>              | <b>VNI 4</b>              |
| 1 1/2"      | Polyethylene        | Nylon 6          | <b>VNYI 1</b>            | <b>VNYI 2</b>             | <b>VNYI 3</b>             | <b>VNYI 4</b>             |
| 1/2"        | Polyethylene        | PVC              | <b>VPC 105</b>           | <b>VPC 205</b>            |                           |                           |
| 1"          | Polyethylene        | PVC              | <b>VPC 110</b>           | <b>VPC 210</b>            | <b>VPC 310</b>            |                           |
| 1/2"        | Kynar (PVDF)        | Polypropylene    | <b>VPP 105</b>           | <b>VPP 205</b>            |                           |                           |
| 1"          | Kynar (PVDF)        | Polypropylene    | <b>VPP 110</b>           | <b>VPP 210</b>            | <b>VPP 310</b>            |                           |

## Specifications

### Electrodes

|  |                                      |
|--|--------------------------------------|
| Material                               | Stainless steel<br>AISI316/DIN1.4401 |
| Standard length<br>VN, VNY<br>VPC, VPP | 100 cm<br>50 cm                      |
| Diameter<br>VN, VNY<br>VPC, VPP        | Ø 5 mm<br>Ø 4 mm                     |

### Housing

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Connection<br>VN<br>VNY, VPC, VPP | Cable (PVC), 2 m<br>Screw terminals |
|-----------------------------------|-------------------------------------|

### Environment

|  |  |
|--|--|
| Degree of protection                           | IP 67  |
| Operating temperature<br>VN, VNY<br>VPC<br>VPP | 0 to 90°C (32° to 194 °F)<br>0 to 60°C (32° to 140 °F)<br>0 to 100°C (32° to 212 °F) |
| Storage temperature<br>VN, VNY<br>VPC, VPP     | -25° to 100°C (-13° to 212°F)<br>-20° to 110°C (-40° to 230°F)                       |
| Pressure<br>VN, VNY, VPP<br>VPC                | 10 bar at 60°C<br>2 bar at 60°C  |

### CE marking

IEC 529

## Mode of Operation

The length of the electrodes determines the levels which will be detected and the amplifier chosen determines the function (see SV...,

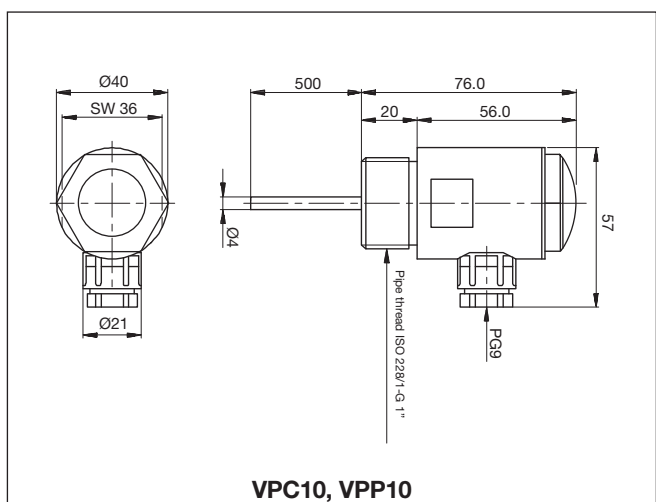
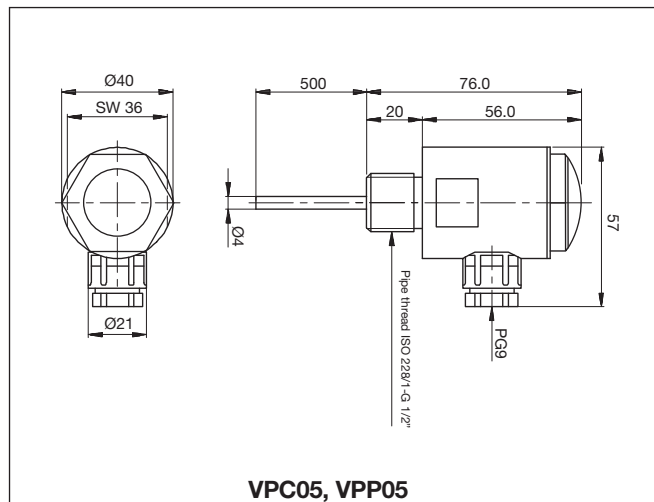
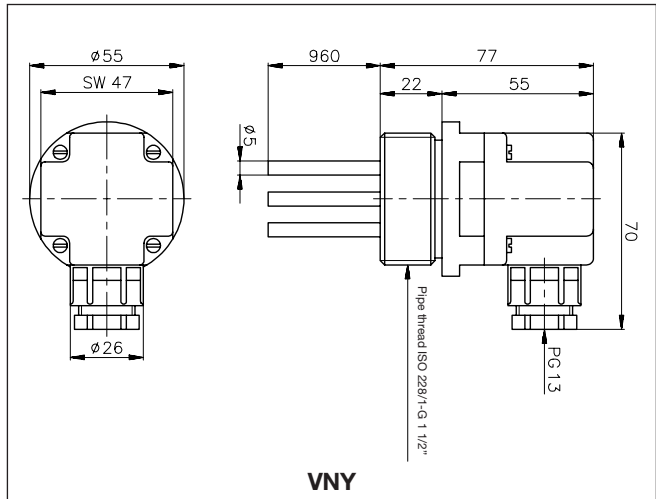
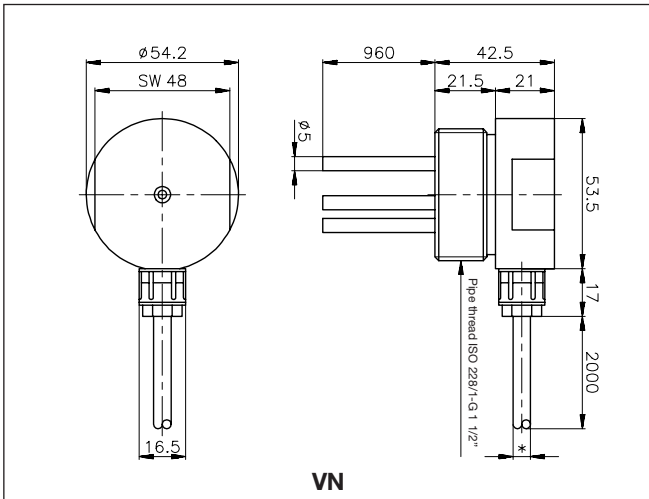
S195/196, S1961, ELA, ELC or ELD). If the container is made of a conductive material this can be used as common electrode.

## Accessories

Extension joint for Ø5 mm electrodes (VN/VNI):

**VD1**

## Dimensions



## Wiring Diagrams

