

## pH or Rx Digitizer

The pH or redox digitizer converts the measurement signal of pH or redox into a standard Modbus RTU protocol. This makes more flexible the use of normal pH or Redox electrodes. His entry with screw terminal can receive the signal of any pH or ORP electrode.



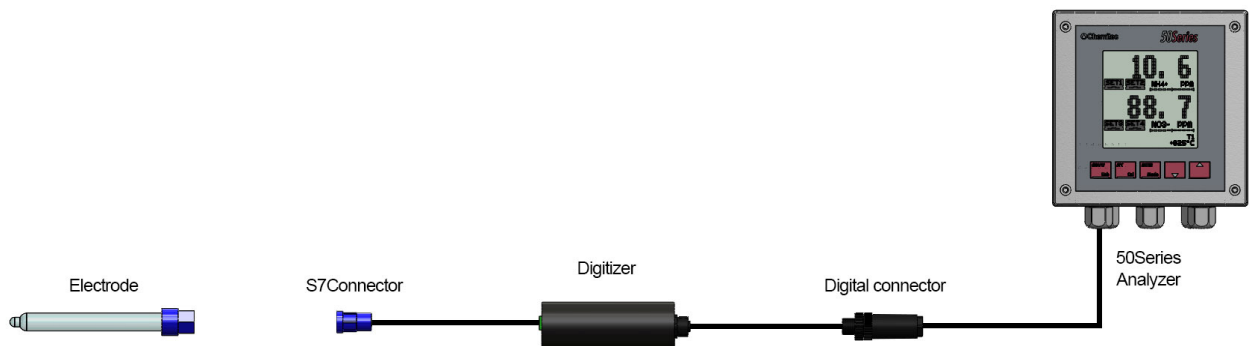
### Applications

- pH measure
- Redox measure

### Features and benefits

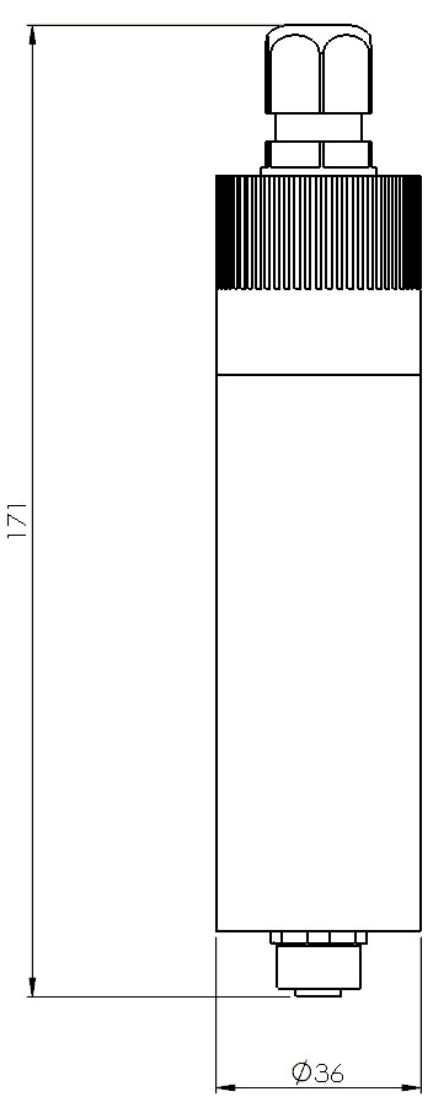
- Possibility to connect every kind of pH or Rx electrode
- Calibration tables are stored in the memory of the digitizer
- Black PVC body
- Immediate installation and easy maintenance

### Connections



**pH or Redox digitizer.**

This digitizer allows you to connect any pH or ORP electrode, and transform the measure signal to Modbus RTU standard; this being a differential signal, it is possible to travel many tens of meters, eliminating the problem of the length of the cables in the normal pH electrodes.

TECHNICAL DATA	DIMENSIONS							
<b>Materials:</b> <ul style="list-style-type: none"> <li>— Black PVC body</li> <li>— Viton Oring</li> </ul>								
<b>Thread:</b> n.a.								
<b>Measuring ranges:</b> <ul style="list-style-type: none"> <li>— pH 0-14</li> <li>— Redox -1500mV + 1500mV</li> </ul>								
<b>Measuring method:</b> Analog-digital								
<b>Accuracy:</b> +/-1 % f.s.								
<b>Response:</b> 90% of the value in less than 60 seconds								
<b>Maximum time of refresh:</b> < 5 seconds								
<b>Working Temperature:</b> 0-50 °C								
<b>Maximum working pressure:</b> n.a.								
<b>Mechanical protection:</b> IP65 Sensor								
<b>Cable:</b> 5m instrument cable with connectors + 5m RG58 for electrodes, S7 connection								
<b>Power supply:</b> 12...24Vdc								
<b>Signal interface:</b> Modbus RTU Standard Protocol								
<b>Calibration:</b> After connecting the probe to the digitizer and this one to the instrument with the supplied cable. Refer to the instrument manual for the calibrations.								
<b>Cable connections</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;">RED</td> <td style="text-align: center;">+12V ...24V</td> </tr> <tr> <td style="text-align: center;">BLACK</td> <td style="text-align: center;">GROUND</td> </tr> <tr> <td style="text-align: center;">YELLOW</td> <td style="text-align: center;">A+ RS485</td> </tr> <tr> <td style="text-align: center;">GREEN</td> <td style="text-align: center;">B- RS485</td> </tr> </tbody> </table>		RED	+12V ...24V	BLACK	GROUND	YELLOW	A+ RS485	GREEN
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## Ordering codes

9400411021	pH digitizer
9400411022	Redox digitizer