

## RADIATION

### Pyranometer SMP 3

**Part number: 7.1415.03.441**

The wide and low power supply range from 5 to 30 VDC makes integration in meteorological stations easy. The SMP is protected against over voltage, reversed polarity and short circuiting. Because all SMP's have identical sensitivity and connections exchanging instruments during recalibration is easy.



## Specification

**Part number: 7.1415.03.441**

| Radiation           |   |
|---------------------|---|
| Spectral range      | 300 ... 2800 nm   |
| Non-linearity       | <0.2 % @ 100 ... 1000 W/m <sup>2</sup>                    |
| Response time       | <1.5 sec @ 63 % vom Endwert<br><12 sec @ 95 % vom Endwert |
| Sensor type         | Thermopile  |
| Data output digital |   |
| Output type         | 2-wire RS485 (MODBUS RTU)                                 |
| Output range        | -400 ... 2000 W/m <sup>2</sup>                            |
| Data output analog  |   |
| Output type         | 4 ... 20 mA   |
| Output range        | 0 ... 1600 W/m <sup>2</sup>                               |
| General             |   |
| Power supply        | 5 ... 30 VDC  |
| Ambient temp.       | -40 ... +80 °C  |
| Electr. connection  | plug with 10 m cable                                      |
| Protection          | IP 67   |
| Dimension           | Ø 150 x 92 mm   |
| Weight              | 0.9 kg  |




## Versions

No other versions of this product are available.

## Accessories

| Product | Product name | Brief description |
|---------|--------------|-------------------|
|---------|--------------|-------------------|



|   |  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
|---|--|--|----------------|--|----------------|---------------------|-----------------|-----------------------|---------------|-----------------------------|----------|----------------------|
|    | <p><b>Traverse 0,8 m</b><br/>4.3171.40.002</p>                       | <p>For mounting of a Pyranometer CMP11 / 6 / 3 And a sunshine duration sensor-CSD3 onto a mast.</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <tr> <td>Clamping range</td> <td>Ø 48 ... 102 mm</td> </tr> <tr> <td>Sensor distance</td> <td>0.4 / 0.8 m from mast</td> </tr> <tr> <td>Material</td> <td>Aluminium / Stainless steel</td> </tr> <tr> <td>Weight</td> <td>1 kg</td> </tr> </table>   | <b>General</b> |  | Clamping range | Ø 48 ... 102 mm     | Sensor distance | 0.4 / 0.8 m from mast | Material      | Aluminium / Stainless steel | Weight   | 1 kg                 |
| <b>General</b>  |  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Clamping range  | Ø 48 ... 102 mm  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Sensor distance   | 0.4 / 0.8 m from mast  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Material  | Aluminium / Stainless steel  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Weight  | 1 kg   |  |                |  |                |                     |                 |                       |               |                             |          |                      |
|    | <p><b>Hanger 1 m ( for radiation sensors )</b><br/>4.3185.xx.009</p> | <p>The hanger is used for laterally mounting of a radiation- or brightness transmitter onto a mast.</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <tr> <td>Length</td> <td>1 m</td> </tr> <tr> <td>Material</td> <td>Aluminium</td> </tr> <tr> <td>Tube diameter</td> <td>Ø 50 mm</td> </tr> <tr> <td>Weight</td> <td>1.8 kg</td> </tr> </table>   | <b>General</b> |  | Length         | 1 m                 | Material        | Aluminium             | Tube diameter | Ø 50 mm                     | Weight   | 1.8 kg               |
| <b>General</b>  |  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Length  | 1 m  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Material  | Aluminium  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Tube diameter   | Ø 50 mm  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Weight  | 1.8 kg   |  |                |  |                |                     |                 |                       |               |                             |          |                      |
|  | <p><b>Adapter Compact</b><br/>506345</p>                             | <p>The adapter serves for mounting a radiation transmitter, baro transmitter or brightness transmitter onto a traverse (4.3171.30.000, 4.3171.40.000) or holder (506 347).</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <tr> <td>Material</td> <td>Aluminium, anodized</td> </tr> <tr> <td>Dimension</td> <td>100 x 115 x 65 mm</td> </tr> <tr> <td>Weight</td> <td>0.5 kg</td> </tr> </table>  | <b>General</b> |  | Material       | Aluminium, anodized | Dimension       | 100 x 115 x 65 mm     | Weight        | 0.5 kg                      |          |                      |
| <b>General</b>  |  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Material  | Aluminium, anodized  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Dimension   | 100 x 115 x 65 mm  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Weight  | 0.5 kg   |  |                |  |                |                     |                 |                       |               |                             |          |                      |
|  | <p><b>Adapter Compact</b><br/>0 ... 90° adjustable<br/>508850</p>    | <p>The adapter serves for mounting a radiation transmitter, baro transmitter or brightness transmitter onto a traverse (4.3171.30.000, 4.3171.40.000) or holder (506 347).</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <tr> <td>Material</td> <td>Aluminium, anodized</td> </tr> <tr> <td>Dimension</td> <td>100 x 115 x 65 mm</td> </tr> <tr> <td>Weight</td> <td>0.5 kg</td> </tr> <tr> <td>Function</td> <td>0 ... 90° adjustable</td> </tr> </table> | <b>General</b> |  | Material       | Aluminium, anodized | Dimension       | 100 x 115 x 65 mm     | Weight        | 0.5 kg                      | Function | 0 ... 90° adjustable |
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| Dimension   | 100 x 115 x 65 mm  |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Weight  | 0.5 kg   |  |                |  |                |                     |                 |                       |               |                             |          |                      |
| Function  | 0 ... 90° adjustable   |  |                |  |                |                     |                 |                       |               |                             |          |                      |

