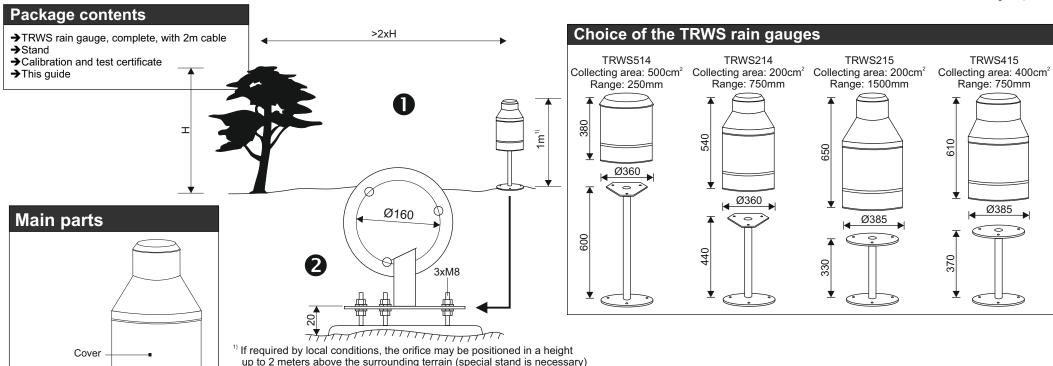
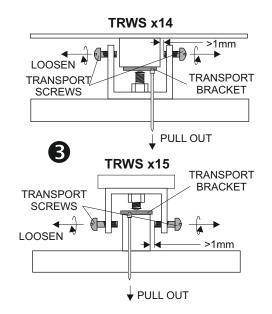
TOTAL RAIN WEIGHING SENSORS TRWSx1x

Most recent revision August 2, 2016



Mountina

- → Find a proper place for the rain gauge. It should be open but not too windy. The distance from the gauge to any obstruction should be at least twice the height of the obstruction. The orifice should be 1 meter above the surrounding terrain.
- → Prepare a concrete base and attach three M8 bolts to it (e.g. use wall plugs and hanger bolts). ②
- → Screw three M8 nuts onto the bolts and place the lower flange of the stand on them. Note: the lower flange is always round but the upper one is hexagonal by some TRWS models.
- → Make the upper (instrument) flange of the stand horizontal using a spirit level in two directions perpendicular to each other. Fix the stand using another 3 nuts and washers. Do not tighten the nuts yet.
- → Detach the stainless steel/laminate cover from the rain gauge base plate loosing three screws at the bottom edge of the cover. Remove the bucket from the base plate.
- → Attach the base plate to the stand using three M8 screws. Check the horizontal position of the support plate with a spirit level and adjust the position using the lower flange nuts if necessary. Now tighten the nuts thoroughly.
- → The rain gauge is fitted with two transport screws and a transport bracket to prevent damage of the strain gauge during transport. Losen both screws so that there is a space of at least 1 millimeter between the tip of the screw and the body of the gauge and remove the transport bracket.
- →Put back the bucket and the cover. Mind the right position of the cover: the male part of the heating connector has to be plugged into the female one located at the base plate of the rain gauge. Fix the cover tightening 3 screws around the lower edge.
- → Use your finger to check if the rain gauge has been assembled correctly: there must not be any contact between the bucket and the cover!









Bucket

Support plate

Instrument flange

Base plate

Stand

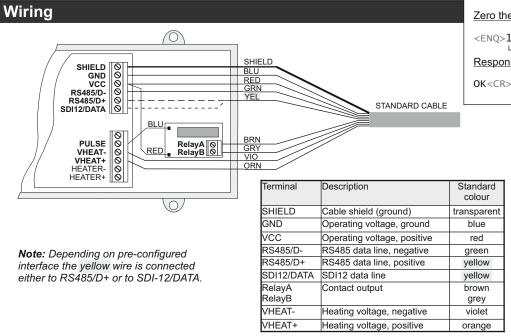
Base flange

TOTAL RAIN WEIGHING SENSORS TRWSx1x

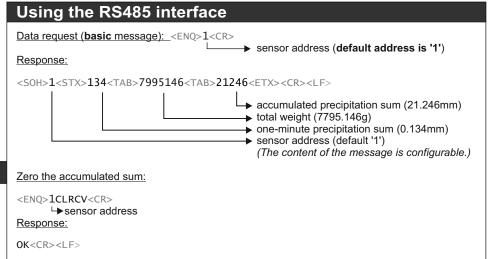
Selecting serial interface

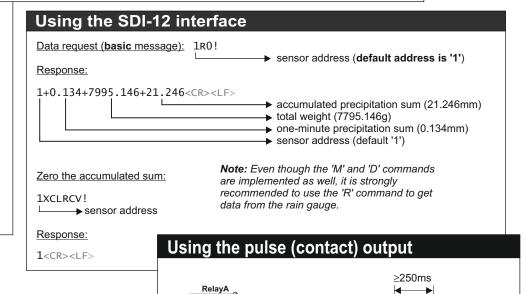
A TRWS rain gauge is delivered with serial interface selected according to your order (RS485 or SDI12). If necessary you can select the other interface by yourself sending the corresponding command in the service mode (see the TRWS User Guide). If you use the standard (8-wire) cable remember to reconnect the yellow wire to the corresponding terminal (RS485/D+ or SDI-12/DATA) as well.

Note: The pulse output functionality is not affected by selecting the serial interface.



Specifications Operating voltage 5..34V_{DC} Operating power 45mW (3.7mA@12V) 10..30V_{DC} (1A@12V, 2A@24V) Heating power RS485 9600, 8 data bits, 1 stop bit, no parity Pulse output 3.3V (inverted, pulse 250ms, space ≥250ms) Dimensions (TRWS214 / 514 / 215 / 415) Ø360x540 / Ø360x380 / Ø385x650 / Ø385x610mm Weight (TRWS214 / 514 / 215 / 415) 8.0 / 8.0 / 9.5 / 9.5kg Standard cable length 2m Operating temperature -40..+70sC Operating humidity 0..100%













RelayB

CLOSED -

OPEN

◆▶

250ms

1 pulse = 0.01 or 0.1 or 1mm (selectable)