Remote side

Remote side

Safety requirements

- a) The remote feeding system of DAR system has been classified as a RFT-V circuit. The RPF provides 320Vdc nominal voltage line to line (± 160Vdc nominal voltage line to earth).
- b) Effective capacitances (including part tolerance)
 - between the connection points for the conductors of the Telecommunication Network

RPF RPF₁ out:
$$C_{RPF1} \le 20.53 \mu F$$
 (more RPF channels add +1.2 μF)
RPF₁₋₄ out: $C_{RPF1-4} \le 24.13 \mu F$

$$\begin{array}{ll} \textbf{DAR} & & \text{RPF1 in: } C_{BBR1} \leq 1.2 \; \mu\text{F} \\ & & \text{RPF2 in: } C_{BBR2} \leq 1.2 \; \mu\text{F} \\ \end{array}$$

• between the connection point for one conductor of the Telecommunication Network and Earth

RPF
$$C_{EBBR} \le 6.1 \mu F$$

- c) At the time of installation a system assessment shall be carried out to ensure that the:
 - $C_{TOTAL1} \le 100 \mu F$ between line to line where:

$$C_{TOTAL1} = C_{RPF1-4OUTTOTAL} + C_{RPF1-4INTOTAL} + C_{RPFLINE1-4}$$

- $C_{TOTAL2} \le 15 \mu F$ between line to earth
- d) At the time of installation it shall be checked that the voltage rating of the wiring of the Telecommunication Network is adequate for the normal RFT circuit voltage together with the transients.
- e) At the time of installation it shall be checked that the circuits to be connected together are either RFT-C circuits or all RFT-V circuits.

INSTALLATION GUIDE OF BROADBAND REGENERATOR REMOTE SIDE

DAR

version 3.3, 2014 TREP-9240-1 Remote side

Remote side

Physical installation of the box

Necessary tools and accessories:

- (1) cable tie
- (2) 2x wood screws
- (3) 2xraw plugs
- (4) screwdriver w/ Phillips head, PH1
- (5) drilling machine

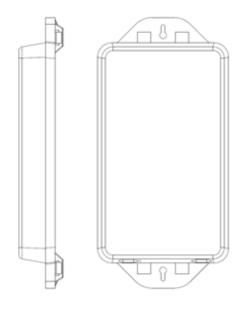


Figure 1.

Version A – Pole installation

- 1. Put the box to the pole.
- 2. Fix it using standard cable ties through the predesigned holes on the ears.

OPTIONAL:

Version B - Wall installation

- 1. Put the box to the wall.
- 2. Indicate the locations of the upper and lower holes.

Consider the longest distance between them!

- 3. Drill holes into the wall and insert the raw plugs.
- 4. Fix the upper screw.
- 5. Hang up the box and fix both screws.

Electrical installation

The DAR has 2 cable tailswith 10 pairs each. The right 10 pairs are for ADSL and RPF connections towards the Exchange, the left 10 pairs are for ADSL connections towards the remote end:

Right 10 pairs

Function	A wire	B wire
ADSL line 1 in (from Exchange)	blue	white
ADSL line 2 in (from Exchange)	orange	white
ADSL line 3 in (from Exchange)	green	white
ADSL line 4 in (from Exchange)	brown	white
power 1	grey	white
power 2	grey	red
RS485	blue	red
Phone	green	red

Left 10 pairs

ADSL line 1 out (to customer)	blue	red
ADSL line 2 out (to customer)	orange	red
ADSL line 3 out (to customer)	green	red
ADSL line 4 out (to customer)	brown	red

In case of Power Spectrum Density (PSD) is required, the monitor program must be used via NEM card, RS485 local port or local phone connection.

Notes:

(1) All unused wires to be cut away and insulated.