

TA-SCOPE Relay: Operational description

Context:

The Hh (TA-Scope Handheld) communicates with one or two DpS (Differential pressure Measuring units) by 2.4 GHz Zigbee radios. The range is limited (up to 80m open space).

The TA-Scope relay is designed to increase the possible range between the HH and DpS 2

Functionality:

The TA-Scope relay bridge bi-directionally the communication between DpS 2 and HH 2 by using a lower frequency, higher powered radio link.

- The Relay 2 receive the Zigbee messages from DpS2
- It sends them on the 915Mhz band to Relay 1
- The Relay 1 receive the messages from Relay 2
- It sends them by Zigbee to Hh

(the same process occurs in the Hh to DpS 2 direction)

