Monitoring systems: PROWATCH Telmo

The PROWATCH product family is made of various models that can be tailored to meet specific customer monitoring requirements. The Telmo is a product that will go embedded inside the transmitter system.

Since PROMAX launched the PROWATCH Deide we had a growing presence in the market of remote monitoring systems with a product range designed thanks to our wide experience in TV and radio measuring instruments.

These products are adapted to customer needs and have a focus on remote measurements and surveillance turn key solutions for analogue and digital television and radio signals.

The PROWATCH Telmo offers high functional specifications in a reduced space as well as high integration simplicity in already existing installations.

The PROWATCH Telmo basic system has been created for remote control and measurement of Digital Terrestrial TV (DTT) signals. Its main purpose is the remote monitoring of the quality of this type of signals, alarm generation based on the different types of impairments detected and carrying out of basic monitoring functions over the transmitting station where installed.

The Remote control and Monitoring Unit, PROWATCH (RMU), is composed of a compact module powered at 48V which is easy to integrate in the existing infrastructure of any transmitter, repeater or gap-filler. This module is available both in rack format as well as in a compact box for wall mount on a DIN rail.

From an electronic point of view, the unit is based on the most advance circuits for DTT signal tuning, demodulation and measurement. Such design warrants processing speed, stability and measurement reliability.

The unit, once it has been configured, works as an autonomous element. Configuration can be modified by remote control making it not necessary to install a permanent user interface (display, keyboard…)

PROWATCH Telmo includes a serial port for data transmission to the remote monitoring location. A simple protocol is used to obtain information on system status, alarms generated or configuration data.

As an example of one of the possible tailored applications, a PROWATCH Telmo can monitor 6 DTT multiplexes and generate ALARMS and WARNINGS depending on signal level, VBER or MER.