



046 - Wi-Fi

Radio communication 2.4 Ghz 802.11

DESCRIPTION

Wi-Fi is a wireless local area network (WLAN) technology that uses devices based on IEEE 802.11 standards.

This interface allows the instrument to communicate with other devices using the same channel or to connect to a network without using wires.

The data exchange uses WPA encryption and the frames exchanged within it are the same as those used in ForTest communication protocols including cyclic redundancy check of the data to detect and correct errors.

Three operating modes are available:

- SOFT ACCESS POINT (AP MODE)
 - STATION (STATION MODE1)
 - IOT (STATION MODE2)

ACCESS POINT MODE

AP mode requires the instrument to be seen as an Access Point by all Wi-Fi devices. The name and password assigned to the device can be customized by the user.

Once the radio connection has been made, the instrument makes available a service in the local network that allows

communication using the ForTest or Modbus-RTU protocol.

This mode allows you to have only one device connected to the network generated by the instrument.

Through the PC Leak Test Manager software, it is possible to manage the programming of the control unit in a totally wireless way, download the test results and view the values in real time.

STATION MODE1

STATION MODE1 requires the instrument to connect to a specific Wi-Fi network through the selection of SSIDs and passwords.

Once authenticated, the instrument can be seen by all devices connected to the same network.

The tool displays a service that allows you to communicate using the ForTest or Modbus-RTU protocol. Only one device at a time connected to the Wi-Fi network can communicate with the instrument.

STATION MODE2

STATION MODE2 requires the instrument to connect to a specific Wi-Fi network through the selection of SSIDs and passwords.

Once authenticated, the instrument tries to access the Internet and connects to the ForTest Cloud where it remains registered for as long as it is on and reachable.

Once registered, every activity carried out by the control unit is recorded on the Cloud and through a request for online technical assistance it is possible to manage the control unit directly from a remote operator.

TECHNICAL CHARACHTERISTICS

- RF certification: FCC/CE/KCC/SRRC/NCC/TELEC
- Green certification: RoHS/REACH
- Reliability: HTOL/HTSL/uHAST/TCT/ESD
- Protocols 802.11 b/g/n, BLE v.4.2 BR/EDR e BLE
- Operating frequencies: 2.4 2.5 Ghz
- NZIF radio receiver with -97 dBm sensitivity
- Transmitter class 3
- Internal antenna
- Encrypted authentication protocols WEP, WPA1 e WPA22
- Recommended router distance <10 mt</p>
- Minimum TCP/IP traffic timeout over 5000 ms
- ICMP ping time greater than 2 ms
- Can be used with Leak Test Manager software (A079)

TECHNICAL CODE

Within the technical code the field that defines the Wi-Fi option is located in position 46.

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