

2

Display of WiFi state

Change to the "WiFi" display using the button. In the top left corner the current state is displayed.

State	Meaning
inactive	WiFi module is switched off.
scanning...	Searching for a WiFi network (SSID).
joined XX ¹	Joined a WiFi network. SSID and password correct.
connected XX ¹	Connected to WiFi. IP address received.
ready XX ¹	Successfully connected to destination.
retry...	WiFi module has been switched off and is automatically switched on again.
get version	Version number of WiFi module is retrieved.

¹ XX: RSSI value (indicator for destination field strength; > -70 = good, < -80 = bad)



Additional instructions MSR145W2D in WiFi network

Note: Please read the "Brief instructions MSR145W2D" that describes the basic functions of the data logger.

Software updates and answers to FAQs are included in the support area on www.msr.ch.

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Display of WiFi errors

In the "WiFi" display change to the detailed "State" display with "Result" display using the button.

Result	Meaning
Startup xxx	WiFi module cannot be initialised. Please repeat!
Wrong SSID	No WiFi available or incorrect network name (SSID). Please check the network name!
Wrong key	Wrong password (of the type WPA2).
No IP assigned	No IP address received from router or Fritz!Box.
Unknown URL	Destination (URL) unknown. Please check URL and DNS server!
No server	Data is not processed by the destination.
No transfer	The sent data is not confirmed by the destination.
Nothing to do	There is no data to be transferred.

V 2019-12-18

1

WiFi configuration

To be able to send measuring data with the MSR145W2D through a WiFi network (local wireless network) you have to first setup the following WiFi settings in the Setup program of the MSR PC software:

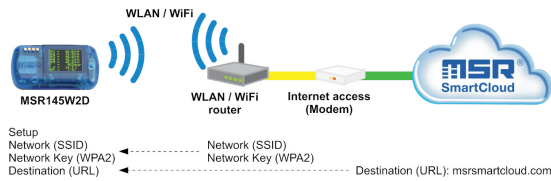
1. To which WiFi network do you want to connect the logger?
Login data: **"Network (SSID)"** and **"Network Key (WPA2)"**
2. Where is the data sent to?
"Destination": URL (e.g. msrsmarcloud.com) or IP (e.g. 192.168.1.2)

You can activate the WiFi module using the button on the logger. When putting it into operation it is recommended to use the Setup program ("WLAN/WiFi" -> "Status") on the PC via USB cable.

For system administrators: The MSR145W2D supports a 2.4 GHz WiFi connection (IEEE 802.11 b/g/n) and a dynamic assignment of the IP address through the DHCP server. When using a URL a DNS server (port 53) is also required. Port 9294 (TCP and UDP) is used to transfer the data.

1a

Sending data through an existing WiFi network to the MSR SmartCloud

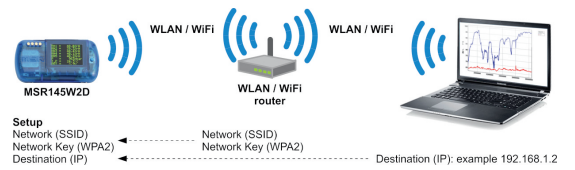


For this option you do not require any additional hardware, as it uses the existing network infrastructure.

Please ensure that the logger has access to the Internet. If there is no access to an existing WiFi network, we recommend option 1b.

1c

Sending data through an existing WiFi network to a local application

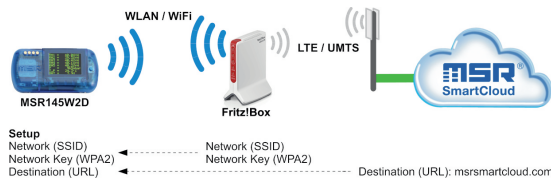


For this option you do not require any additional hardware, as it uses the existing network infrastructure. There is no internet access needed, as the measuring data is sent to a local application.

In the support area on www.msr.ch you can download the different local applications.

1b

Sending data through an additional WiFi network to the MSR SmartCloud

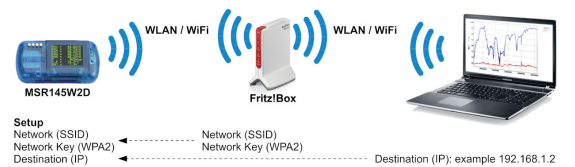


In this option an additional WiFi network and internet access using a mobile phone connection are provided – e.g. through a Fritz!Box. A suitable Fritz!Box as well as a SIM card that can be used in many countries is available from MSR Electronics GmbH upon request. The configuration instruction for the Fritz!Box is available in the support area on www.msr.ch.

Alternatively, you can also use your own hardware and SIM cards.

1d

Sending data through an additional WiFi network to a local application



In this option an additional WiFi network is provided – e.g. through a Fritz!Box. Internet access is not required. A suitable Fritz!Box is available upon request from MSR Electronics GmbH. The configuration instruction for the Fritz!Box as well as the different local applications are available in the support area on www.msr.ch.

Alternatively, you can also use your own hardware.