

FT20

Receiver/Repeater



FT20 is a radio data receiver and repeater for Nokeval MTR, FTR and KMR series wireless transmitters.

Type FT20-RTC433-RECEIVER means the device is pre-set as receiver only. Type FT20-RTC433-REPEATER means the device is pre-set as repeater and is supplied with a power supply.

FT20 receives and buffers the data packets that wireless transmitters have sent. It can also relay the data packets so that large areas can be covered using only one receiver. It automatically recognizes the types of the transmitters, so different kinds of transmitters can be

used simultaneously. Transmitters can also have different transmission intervals. FT20 uses license-free 433.92 MHz frequency band (ISM) so it can be freely used, for example, almost in whole Europe.

FT20 is housed in a watertight (IP 66) and impact resistant plastic enclosure. The joint between the two modules is sealed with two rubber O-rings. The receiver is connected to a computer using RS-485 bus and it requires e.g. PromoLog data acquisition application that reads the data from the device.

Nokeval SCL or Modbus RTU protocol is used for data transmission between the receiver and the computer. Multiple receivers can be connected in parallel to an RS-485 bus to increase the coverage area. MAX-FT20 has one diagnostic LED and it requires 8..30 VDC power supply.

Connection details	
bus protocol	Nokeval SCL Modbus RTU
bus interface	RS-485
baud rates	300, 600,1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 and 230400
Power supply	
supply voltage	24 VDC: 8...30 VDC
current consumption	Max 50 mA
General information	
maximum ambient temp	60°C
minimum ambient temp	-30°C
case material	plastic (PC and ABC+PC)
installation	Wall mount
protection class	IP66

