

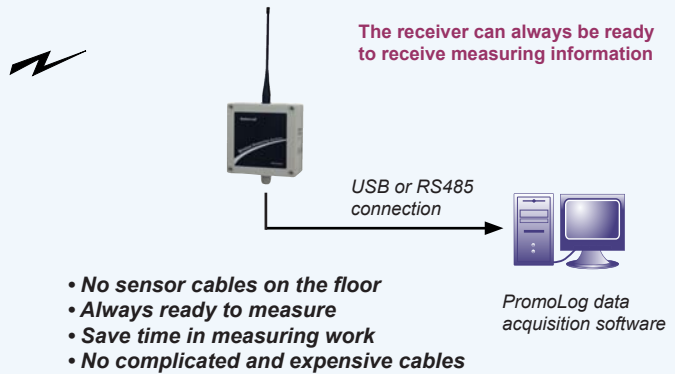
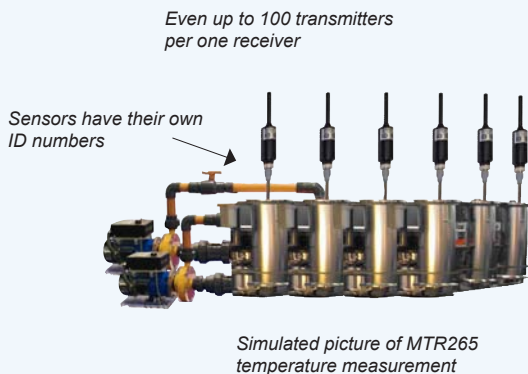
## Quality control is easier than ever!

Wireless measurement system is low-cost solution for quality control in production plants.

## Application areas

- Temperature and mA/V- measurements
- Testing in the field circumstances
- Cold transportations
- Cold storage room monitoring
- Moving targets
- Equipment testing in maintenance

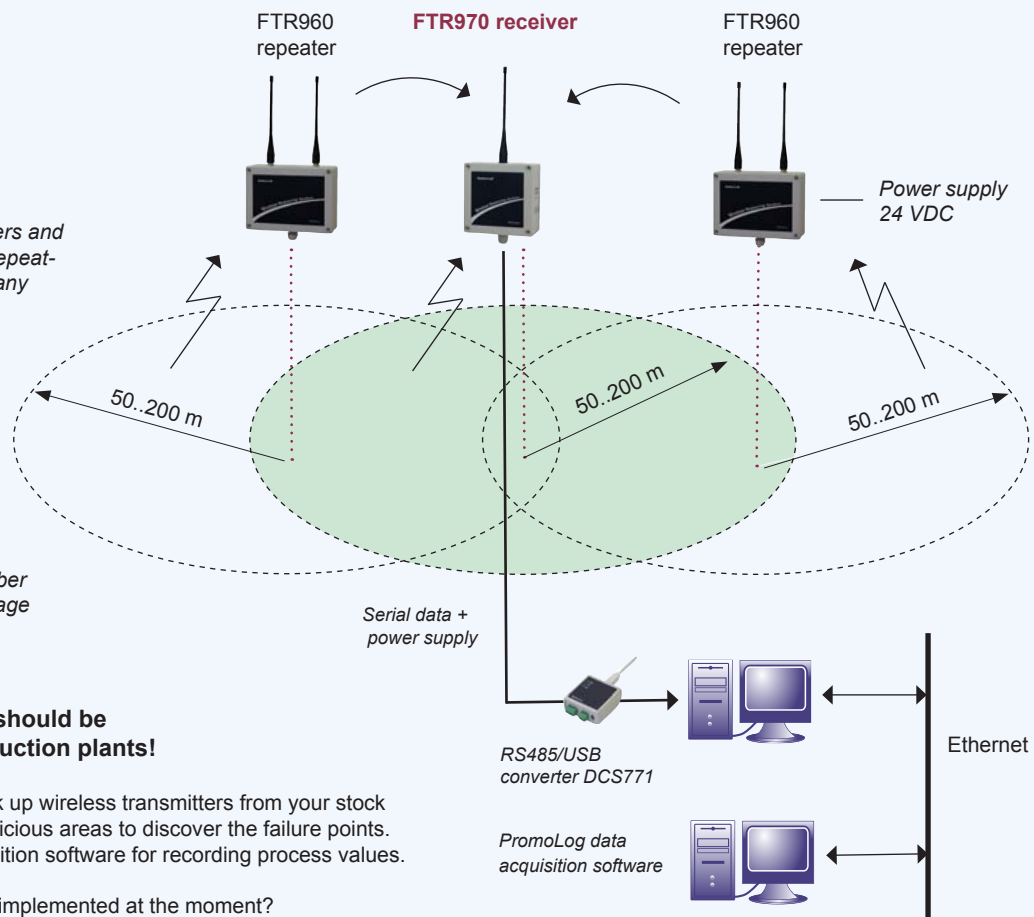
## Wireless data logging is now simple



## Build a large data logging network easily by using repeaters

### Low-cost solution for quality control!

Repeater listens transmitters and retransmits data to other repeaters and receivers without any configuration



You can place a large number of transmitters in the coverage area of repeaters

### Wireless transmitters should be as standard in all production plants!

If the process fails, just pick up wireless transmitters from your stock and place them to the suspicious areas to discover the failure points. Use PromoLog data acquisition software for recording process values.

How is your quality control implemented at the moment?



	Receiver	Receiver with memory	Repeater	Receiver for DIN rail	Receiver with memory
Model	FTR970	FTR970-PRO	FTR960	RTR970	RTR970-PRO
Manufacturer	Nokeval	Nokeval	Nokeval	Nokeval	Nokeval
Input / Radio signal	Frequency 433.92 MHz	Frequency 433.92 MHz	Frequency 433.92 MHz	Frequency 433.92 MHz	Frequency 433.92 MHz
Number of channels	up to 1000 *	up to 1000 *	up to 500 *	up to 1000 *	up to 1000 *
Receiver	•	•	-	•	•
Repeater	-	-	•	-	-
Non volatile memory	-	150.000 samples	-	-	150.000 samples
Data processing	PromoLog software (PC)	Readable by customer	-	PromoLog software (PC)	Readable by customer
Serial data / Ouput	RS485, RS232, USB	RS485, RS232, USB	-	RS485, RS232, USB	RS485, RS232, USB
Protocol	Nokeval SCL	SCL and Modbus RTU	-	Nokeval SCL	SCL and Modbus RTU
Operating temperature	-30..+60°C	-30..+50°C	-30..+60°C	-30..+60°C	-30..+50°C
Configuration software	MekuWin	MekuWin	-	MekuWin	MekuWin
Power supply	9..30 VDC	9..15 VDC	9..30 VDC	9..30 VDC	9..15 VDC
Installation	Field enclosure	Field enclosure	Field enclosure	DIN rail, 35 mm	DIN rail, 35 mm
Dimensions	130 x 130 x 60 mm WHD	130 x 130 x 60 mm WHD	180 x 130 x 60 mm WHD	70 x 85 x 60 mm WHD	70 x 85 x 60 mm WHD
Protection class	IP65	IP65	IP65	IP20	IP20
Note	Data processing by PromoLog data acquisition software or user's software.	The FTR970-PRO works independently without realtime data processing in PC.	The FTR960 listens to transmitters and retransmits data to a receiver or repeater.	Data processing by PromoLog data acquisition software or user's software.	The RTR970-PRO works independently without realtime data processing in PC.

5

\* depends on transmission interval

## Receivers with memory

Receivers FTR970-PRO and RTR970-PRO (DIN rail) have internal memory of 150.000 samples and can also act as dataloggers. If the receiver is powered through UPS battery even power failures or computer malfunctions do not cause any loss of measurement data. Data can be automatically read from receiver's memory when the computer is running again.

Measurement data from Receivers FTR970-PRO and RTR970-PRO can be read using PC running PromoLog data



FTR970-PRO



FTR960

## Repeaters

FTR960 and RTR960 have separate antennas for receiving and transmitting data. Repeaters do not need any configuration and can be also added afterwards if the installation environment of the wireless measuring system changes. Only 9...30 VDC power supply is required.

The use of repeaters reduces the maximum number of transmitters because repeaters use the same frequency channel as transmitters. The maximum amount of transmitters is determined by the transmission interval.

## Desktop receiver MTR970



**Features:**  
Frequency Frequency 433.92 MHz

**Serial data:**  
RS485, RS232,  
Nokeval SCL protocol

**Operating temperature:**  
0..+60°C

**Power supply:**  
9...30 VDC

**Dimensions:**  
75 x 120 25 mm WHD