

# Intelligent Indoor Temperature Transmitter

## MXT-121



### Applications

- ✓ Temperature Measurement in the fields of Heating, Ventilation and Air-Conditioning
- ✓ Recording of Minimum and Maximum values for critical environments
- ✓ Supervision of Critical Temperature



*Intelligent Indoor Temperature Transmitter – MXT-121*

### Features

- ✓ Indoor Temperature Measurement
- ✓ Programmable Temperature range
- ✓ Minimum & Maximum Temperature stored in memory
- ✓ 0...10V or 0...20mA output (Jumper Selection)
- ✓ Selectable Averaging Signal

### Description

**MAREX Solutions Ltd** offers a perfect solution in Temperature Measurement via Indoor Temperature Transmitters, in a wide range of applications. Engineered with optimum precision and guaranteed accuracy, they can fit in any application needed.

The transmitter measures the Temperature by the use of a NTC Thermistor. The microprocessor samples the temperature once per second. It calculates an averaging signal over a preset number of seconds and generates an output signal based on minimum and maximum temperature values. Standard range is 0...50°C and 10 seconds average. The range and averaging samples may be customized.

Using the programming tool, the user has the option to read out and reset minimum and maximum values. The minimum and maximum values may as well be sent to the output using OP00. This way the sensor may be used to supervise the temperature for critical environments. The minimum and maximum values are saved into the EEPROM every minute. They will still be available after a power failure.



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## Specifications

<b>Power Supply</b>	24V AC 50/60Hz , 24V DC	
<b>Temperature Range</b>	-70...150°C	
<b>Accuracy</b>	±0.2K at 25°C	
<b>Output</b>	<b>Output Signal</b>	DC 0-10V or 0...20mA
	<b>Resolution</b>	10Bit, 9.7mV, 0.0195 mA
	<b>Accuracy</b>	±2%
	<b>Maximum Load</b>	20mA
<b>Operating Temperature</b>	-40 to +70°C	
<b>Ambient Humidity</b>	<95% RH	
<b>Material</b>	Fire-Proof ABS Plastic , Galvanized Steel Mounting Plate	
<b>Standards</b>	CE conformity according to EMC Standard 89/336/EEC & EMEI Standard 73/23/EEC EN 61 000-6-1 / EN 61 000-6-3	
<b>Ingress Protection</b>	IP30 to EN 60529	
<b>Safety Class</b>	III (IEC 60536)	
<b>Dimensions</b>	21x88x88mm	



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