

Technical Manual for the 1-Wire Temperature Sensor

Version 1.12



Introduction

This manual contains technical documentation allowing easy installation and use of the 1-Wire Temperature sensor. Each sensor has a unique ID, which makes it possible to connect multiple sensors on the same 1-Wire bus.

The 1-Wire temperature sensors are available for:

- RTCU MX2i series.
- RTCU DX4 series.
- RTCU AX9 series.
- RTCU A9i units.
- RTCU M11 / M11i series.

The 1-Wire bus is a single wire (plus ground) communication bus, which is easy to install as it only consist of the two wires.

For information on the software configuration of the RTCU unit please refer to the RTCU IDE on-line help.

Table of Contents

Introduction	2
Table of Contents.....	3
Ordering Information	3
Graphical view.....	4
Connections	5
RTCU MX2i series.....	5
RTCU M11 / M11i series	5
RTCU DX4 /AX9 series and the RTCU A9i	5

Ordering Information

Order-code	Description
RT-O-1W-TEMP1	1-wire Temperature sensor cable for the RTCU-M11 Series.
RT-O-1W-TEMP2	1-wire Temperature sensor cable for the RTCU-DX4 / AX9 Series and the RTCU-A9i unit.
RT-O-1W-TEMP3	1-wire Temperature sensor cable for the RTCU-MX2i Series

Graphical view



1-Wire Temperature sensor
for M11 / M11i series.



1-Wire Temperature sensor
for DX4 and AX9 series / A9i



1-Wire Temperature sensor
for MX2i series

Connections

RTCU MX2i series

The reader is delivered with a 12-pole connector. Connect this directly to the RTCU unit.

RTCU M11 / M11i series

The reader is delivered with a SUB-D9 connector. Connect this directly to serial port 1 (programming connector) on the RTCU unit.

RTCU DX4 /AX9 series and the RTCU A9i

The reader is supplied with two wires prepared for connection. The color and function of the wires are listed in the table below.

4x0.34mm² cable

Color	Description	DX4	AX9	A9i
Brown	1-Wire bus	1Wire, pin 7	1Wire	1W-Bus
Yellow	Ground	SGND, pin 9	SGND	GND

For installation on the RTCU DX4 / AX9 series and the A9i the wires must be stripped and installed in the dedicated connectors.

The connectors are labeled on the RTCU-AX9 and RTCU-A9i for easy identification.