



MESA Systems Co.

MESA M-SM-TEMP-RTD

MESA M-SM-TEMP-RTD Cabinet Temperature Measurement Module

The M-SM-TEMP-RTD cabinet temperature module is used to monitor the air temperature inside the M-N4X316-X cabinet. The module includes three parts: 1) Pt 100 RTD with 50-cm of cable (4-wires) or Pt 100 mounted directly to the Binder connector, 2) IMPbus / power cable with 50-cm of cable (4-wires) with Binder connector and cable tails and 3) the SM-TEMP module enclosure.

Due to the very high kiln process temperatures the MESA TRIME-GW moisture transmitters housed in the M-N4X316-X cabinet must be cooled during the kilning cycle. To accomplish this, a constant supply of cooling air is piped to the cabinet and the temperature of the cooling air is controlled based on the cabinet temperature. A constant cabinet temperature should be maintained but not to exceed 140°F (60°C).

The M-SM-TEMP-RTD module communicates with the M-PIM-0212 using the IMPbus (data bus). The measured temperature is available as a sensor node and can be used by the PLC to control the cooling air supply.



Image of: MESA M-SM-TEMP-RTD module with 50-cm sensor cable

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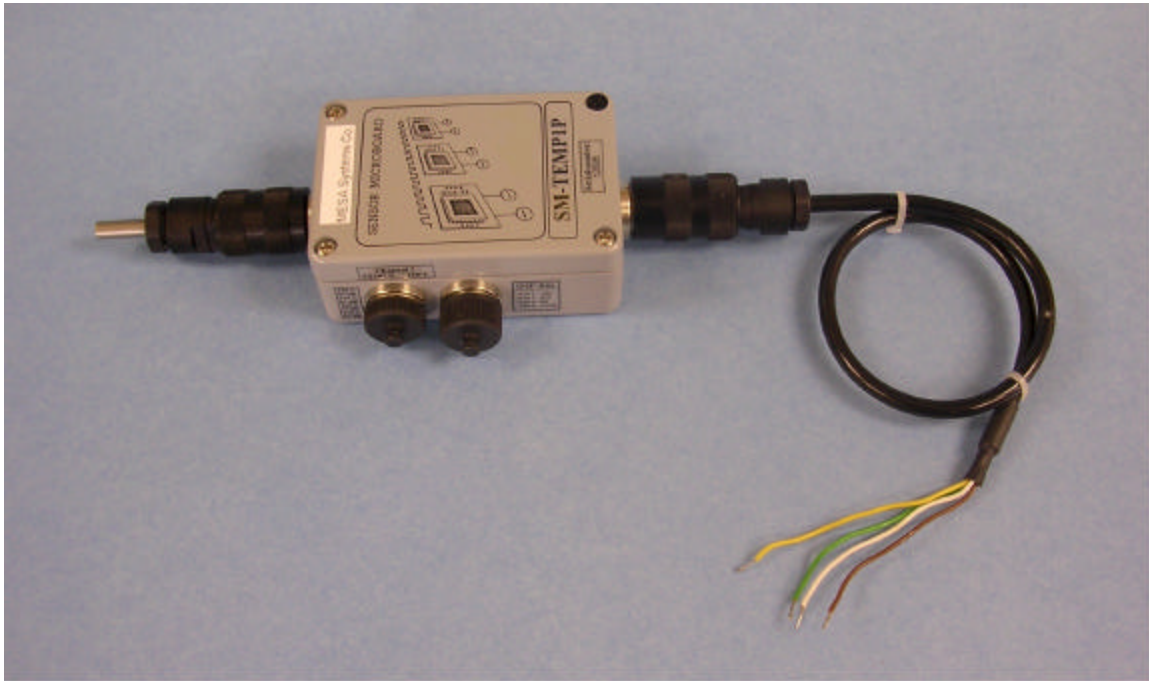


Image of: MESA M-SM-TEMP-RTD module with RDT mounting in Binder connector

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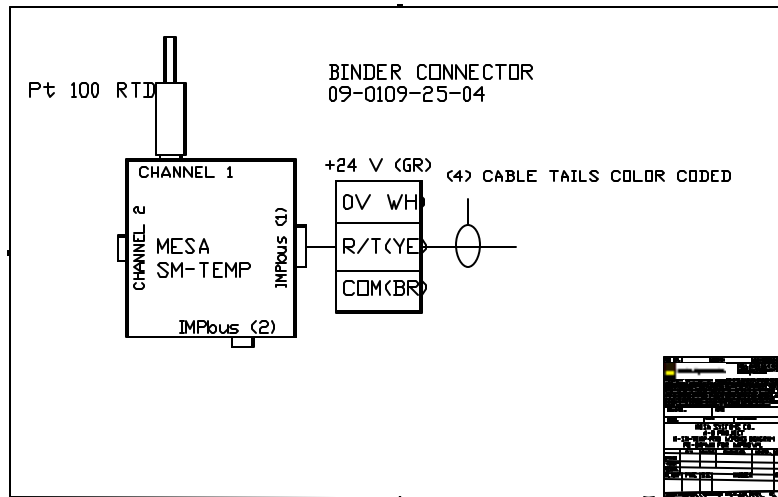


Image of: MESA M-SM-TEMP-RTD wiring diagram (see drawing section for details)

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M-PIM-212

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11:10.22 AM

	Moisture%	Temperature (F)	Standard Deviation	TDR	Error %	Product Switch	Cal Offset
Trime GW Sensors							
Sensor 11 - test 1	8.1	68.0	0.0982	47.6	0.0	8	0.0
SM Sensors							
	Ch 1	Ch 2					
Sensor 15 - test 2	67.3	66.9	Temperature (F)				

Trend	Status	System Info	Login
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Image of: MESA M-SM-TEMP-RTD data displayed by the M-PIM-0212