



Datasheet QT65-TMT (Slurry) Thermal Massflow Transmitter

Principle

Thermal conductivity

Description

Model TMT is designed to control Arenal's ceramic thermal conductivity probes, to convert its analog signals to digital information and to calculate the thermal properties of the slurry. This data is available on the Modbus RTU dataline for connection to remote QA03-MFA Massflow analyzer, which, after correction with the slurry density and temperature, can calculate the flow rate and massflow rate.



Features

- Control of ceramic thermal massflow probes in the field
- Calculating walking average of monitored data
- Self-calibration of thermal properties
- Same dimensions as Ultrasonic Slurry Density Transmitters

Specification

- Thermal conductivity probes up to 24 V/6A
- Ambient temperature range: 0-55°C
- Power supply: 24Vdc-150W

Connectivity

- 2-wire RS485 Modbus RTU
- Dual 4-wire PT1000 circuitry
- Thermal conductivity probe terminals

Mounting

- Strong and durable aluminum enclosure with powder coating.
- Mounting is assembly to the probe.
- Assembly mounting without opening lid.

Engineering specifications

- Make: Arenal PCS BV, The Netherlands
Advanced Thermal Conductivity Transmitter electronics in industrial enclosure
- With T-Piece functionality
 - Firmware version: v3
 - Enclosure material: powder coated aluminum, off-white
 - Enclosure Model: AR120
 - Protection degree: IP66
 - Power supply by QA03-MFA only (24Vdc)
 - Power consumption: 150W max
 - Digital data communication line, Modbus RTU over RS485
 - Probe type: all Arenal thermal conductivity probes
 - With PT1000 circuitry

Product variations

QT656-TMT-SPC

- > Mounting on spool piece or wafer cell
- > Cable gland M12 for coax cable (on bottom)
- > Cable gland 2x M20x1,5

QT0169-UDT-DNR

- > Mounting on DIN rail
- > Cable gland 3x M20x1,5

Dimensional drawing

