

Script.Serial.AUTOSENDER.3Zone_Temperature_Sensor.V1.3.0.1

AUTOSENDER 3 Zone Temperature Sensor Serial Script



Overview

The script supports the temperature sensor device provided by Autosender. The device allows three distinct sensor readings to be sent to the MiX OBC using serial interfaces.

This script can be used with the following devices:

1. MiX 4000
2. MiX 6000
3. FM3316 and FM3306 Communicators
4. FM3517i and FM3507i Communicators
5. FM3617i and FM3607i Communicators
6. FM3717i and FM3707i Communicators
7. FM3817i and FM3807i Communicators

Version History

Reference	Version	Changes
FM-858	v1.0.0.1	The script supports temperature sensors in 3 zones and one humidity sensor. It does not implement any alarms.
SR-14301	v1.1.0.1	Negative temperature values would produce inaccurate event values. An offset is added to the parameters to counteract this.
SR-15397	v1.2.0.1	The scripts supports temperature sensors in 3 zones. It does not support any alarms. *Added support for error messages from temperature sensors. A flag notifying timeout/disconnect of temperature sensor is added as a DynaMiX parameter. This will activate after $10 \times 30 = 300$ seconds (5 minutes).
ESCR-135	v1.3.0.1	Added support for the over temperature thresholds alarms (set in device).

Supported Parameters

ACRONYM	PARAMETER NAME	PARAMETER DESCRIPTION	Return values/states (if applicable)
ATMP1	CC.ATMP01	AutoSender Cold Chain Temperature 1	
ATMP2	CC.ATMP02	AutoSender Cold Chain Temperature 2	
ATMP3	CC.ATMP03	AutoSender Cold Chain Temperature 3	
HMD01	CC.HMD01	Cold Chain Humidity1	
ATS1E	CC.ATS1E	AutoSenderTemperature 1 ProbeError	0 = No error 1 = Probe returned error message
ATS2E	CC.ATS2E	AutoSenderTemperature 2 ProbeError	0 = No error 1 = Probe returned error message
ATS3E	CC.ATS3E	AutoSenderTemperature 3 ProbeError	0 = No error 1 = Probe returned error message
ASCON	ASCON	AutoSender sensor connection status	0 = Default value/Device connected 1 = Not connected
ASTP1	CC.ASTP1	AutoSender Temperature Status 1	0 = Within threshold 1 = Above threshold
ASTP2	CC.ASTP2	AutoSender Temperature Status 2	0 = Within threshold 1 = Above threshold
ASTP3	CC.ASTP3	AutoSender Temperature Status 3	0 = Within threshold 1 = Above threshold

Installation Notes

1. **The script is NOT compatible with TRACERS**
2. The Autosender device is connected to the OBC serial port as follows:

Autosender (Tx, White) ← OBC DB9-pin2 (Rx)

Autosender (Rx, Green) → OBC DB9-pin3 (Tx)

Autosender (Ground, Black) ↔ OBC DB9-pin5 (Signal Ground)
3. Any device connected to the serial interface must be configured to:
 - Baud Rate: 19200 bps
 - Byte Length: 8 bits
 - Flow Control: None
 - Parity: None
 - Stop Bits: 1 bit