Please use this manual change with the user’s manuals listed below.

1. Applicable User’s Manual and Page

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<td>6.3.3 Parameters of SENSOR Transducer Block</td>
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**SENGER_CONNECTION_1 (2)**
(Sensor1 Probe Setup(M) → SENSOR_CONNECTION_1(2))
Indicates and stipulates the number of wires connected to sensor input 1 (or 2). This setting only valid for RTD and resistance input.

**WIRING_RESISTANCE_1(2)**
(Sensor1 Probe Setup(M) → WIRING_RESISTANCE_1(2))
Wiring resistance of the 2-wire resistance input, the input resistance minus this value is used as the temperature value.

**PRIMARY_VALUE_1 (2)**
(Device Configuration → STB → Basic Setup → Sensor1(2) Basic → Primary Val Range 1(2))
Indicates the value and status of the input from sensor 1(2). The unit set in PRIMARY_VALUE_RANGE_1(2) applies to the unit of the value.

**SENOR1(2)_VALUE**
(Device Configuration → STB → Basic Setup → Sensor1(2) Basic → Sensor 1(2))
Indicates the value and status of the Sensor1(2). The unit set in SENSOR1(2)_UNIT, and the damping time constant in SENSOR1(2)_DAMP.

**TERMINAL_VALUE**
(Process Variables → STB → Sensor Value → Sensor1(2) → Terminal)
Indicates the value and status of the terminal board temperature. The unit of temperature is set in TERMINAL_UNIT, and the damping time constant in TERMINAL_DAMP.

**AVERAGE_VALUE**
(Process Variables → STB → Sensor Value → Diff. Average → Average)
Indicates the value and status of the average of 2 inputs when 2 sensors are connected. The unit of temperature is set in AVERAGE_UNIT. When there is no connection to sensor 2 input, the status of AVERAGE_VALUE is Bad and the value is undefined.

**BACKUP_VALUE**
(Process Variables → STB → Sensor Value → Backup → Backup)
When 2 sensors are connected, this parameter normally shows the value input from sensor 1, and in case of sensor 1 failure (when the backup action becomes active), shows the value input from sensor 2. The unit and damping time constant follow the respective settings for the input currently selected. If you want to switch back to select sensor 1 input while the backup action is active after the sensor 1 input recovers, set 1 (Enable) in SENSOR_RECOVER. Because this data is not retained, set 1 (Enable) in the parameter every switch back. When there is no connection to sensor 2 input, the status of BACKUP_VALUE is Bad and the value is undefined.

**NOTE**
Sensor Type: Any type available but two sensors should be same type.

**CAUTION**
There is a time lag between sensor failure and sensor abnormality detection. Since the failed measurement value is output, the PRIMARY_VALUE_1(2) and SENSOR1(2)_VALUE also becomes undefined. At that time, the status of PRIMARY_VALUE_1 (2) and SENSOR 1 (2)_VALUE is "Good". Status will be "Bad" when sensor abnormality is detected. In the AI function block, if the undefined process value is within SCALE, the Status will be "Good", if the SCALE is exceeded, the Status will be "Uncertain".

- **Parameters Related to Limit Switches**
Parameters whose names begin with “LIMSW” store the settings for limit switch signals output to DI function blocks. The SENSOR transducer block has 4 limit switches numbered from 1 to 4, and these parameters determine the specifications of the respective switches. In the following parameter names and descriptions, read the number “1” as “2,” “3,” or “4” according to the intended limit switch number.

**LIMSW_1_VALUE_D**
(Device Configuration → STB → Detailed Setup → Limit Switch → Switch1 → Limsw 1)
Indicates the value and status of limit switch 1.