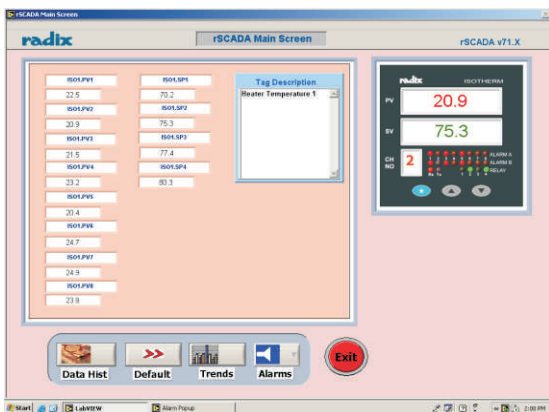
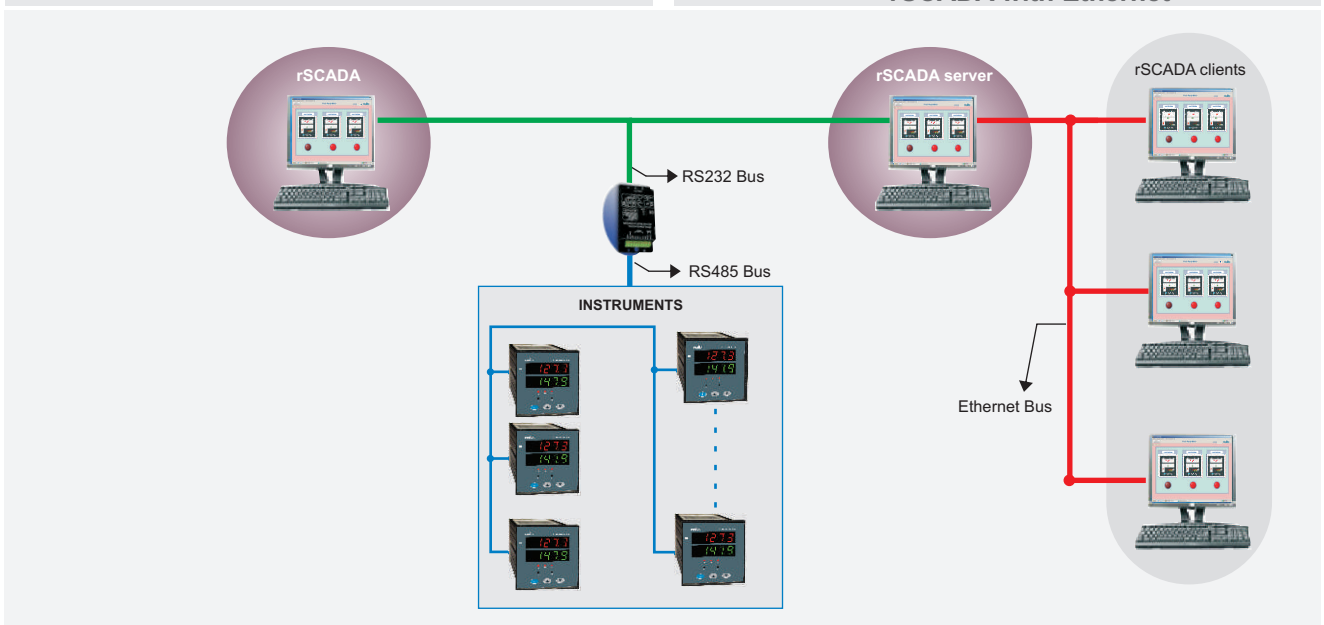




- T1, T2 & Flow inputs
- Specific Heat & Specific Gravity, user programmable
- 4~20 mA out for TR
- RS485 with MODBUS RTU
- 3 key, 5 level programming
- Tactile membrane keypad
- 85~265 V AC SMPS
- Powerful, flexible SCADA software available

rSCADA Basic

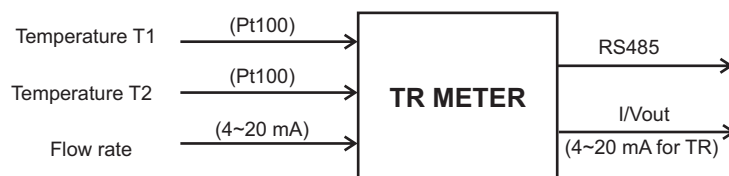
rSCADA with Ethernet



- Flexible trend facility - current and historical
- Alarm function
- Allows read (acquire data) & write (program setpoint, etc) operations
- Supports upto 32 or more instruments
- Capable of storing data upto 10 years
- Compatible with a variety of Radix instruments such as Scanner, PID & ONOFF controllers, Isolators
- Default screen selection
- 21CFR compliant version also available

TR VERSION 32.XX

Fig 1



**SPECIFICATIONS** All specifications at ambient of 25 C, unless specified otherwise

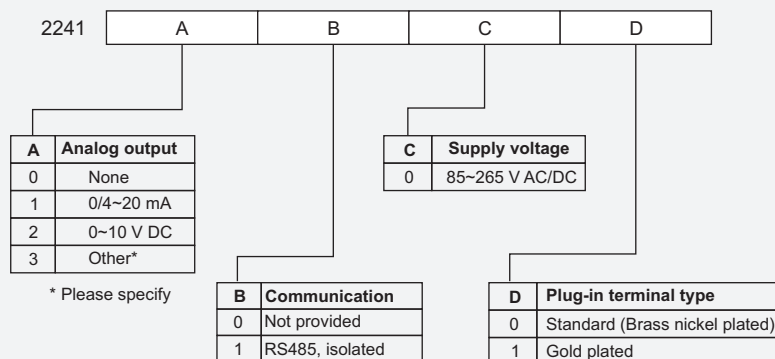
|   |  |
|---|--|
| <p><b>INPUTS</b></p> <p>No. of inputs: 3</p> <p>Input types: Pt100, 3-wire or 4~20 mA*<br/>Input 1: Pt100, 3-wire or 4~20 mA*<br/>Input 2: Pt100, 3-wire or 4~20 mA*<br/>Input 3: 4~20 mA from flow transmitter*</p> <p>Channel scan rate: &lt; 0.8 seconds for 8 channels</p> <p>Channel-to-channel isolation: Suitable for low (leakage) voltages less than 3V AC</p> <p>Input protection: ± 10 V DC max</p> <p>RTD inputs: Current limit &lt; 30 mA, 28 V DC max</p> <p>Current inputs: See Table 1</p> <p>Range limits: See Table 1</p> <p>Accuracy: See Table 1</p> <p><b>INDICATION</b></p> <p>Display type: 0.56" (14.2 mm), 7 - segment LED</p> <p>TR: Upper window, 4 ½ digit : red<br/>Lower window, 4 ½ digit : green</p> <p>T1, T2, Flow (Scanned): 3 red LEDs for displayed parameter</p> <p>Status indication: 2 red LEDs for communication</p> <p><b>OUTPUTS</b></p> <p>Current output: 4~20 mA / 0~20 mA, isolated from input and supply</p> <p>OR</p> <p>Voltage output: 0-1 V / 0-10 V / user specified</p> <p>Maximum load for current output: 500 ohms</p> <p><b>ISOLATION</b></p> <p>Mutual isolation between input/supply/curent output/RS485 port: 1KV AC RMS/1 minute, 250 V AC RMS continuous</p> <p><b>COMMUNICATION</b></p> <p>Port: RS485, isolated</p> <p>Baud rate: User programmable, 4800 bps, 9600 bps, 19200 bps,</p> | <p><b>Protocol</b>: 38400 bps</p> <p><b>Slave ID</b>: Modbus RTU</p> <p><b>Minimum polling interval</b>: User programmable, 1~255</p> <p><b>Parameters</b>: 250 milliseconds</p> <p><b>Process variables</b>: Read only</p> <p><b>PROGRAMMABLE PARAMETERS</b></p> <p><b>Unit</b>: User programmable</p> <p><b>Resolution</b>: User programmable<br/>0.0001, 0.001, 0.01, 0.1 or 1 for linear input, 0.1 or 1 for temperature<br/>0.50 ~ 1.00<br/>0.75 ~ 2.00</p> <p><b>OTHER MAJOR PARAMETERS</b></p> <p><b>Level lock</b>: 1~99 seconds/channel</p> <p><b>Display scan rate</b>: Enable / disable</p> <p><b>SKIP channel</b>: -12.5 ~ 12.5</p> <p><b>Input bias</b>: -12.5 ~ 12.5</p> <p><b>CALIBRATION</b></p> <p><b>Zero &amp; span</b>: Through front panel keys &amp; display</p> <p><b>User calibration</b>: Sensor span and sensor zero</p> <p><b>OTHER</b></p> <p><b>Keypad</b>: Membrane, tactile, 3 keys</p> <p><b>Memory for programmed parameters</b>: Non-volatile, indefinite duration</p> <p><b>Field Connections</b>: Screw type connections in plug-in terminals<br/>a) Standard (Brass nickel plated)<br/>b) Gold plated</p> <p><b>Plug-in Terminal Type</b>: 85~265 V AC, 50/60 hz<br/>5 watts<br/>96 (H) x 96 (W) x 220 (D)<br/>In panel cutout of 90x90 mm</p> <p><b>Supply voltage</b>: 0 - 50 °C</p> <p><b>Power consumption</b>: Below 90%, non condensing</p> <p><b>Dimensions (in mm)</b>: 0 - 50 °C</p> <p><b>Mounting</b>: Below 90%, non condensing</p> <p><b>Operating ambient temperature</b>: Below 90%, non condensing</p> <p><b>Relative humidity</b>: Below 90%, non condensing</p> |
|---|--|

\* Supply for 2-wire transmitter to be provided by user

**TABLE 1**

| SENSOR / INPUT            | RANGE LIMIT (°C / EU) |            | RANGE IN WHICH ACCURACY IS SPECIFIED |            | TYPICAL ACCURACY AT 30 °C (°C / EU) | WORST CASE ACCURACY (°C / EU) |
|---------------------------|-----------------------|------------|--------------------------------------|------------|-------------------------------------|-------------------------------|
|                           | LOW SCALE             | HIGH SCALE | LOW SCALE                            | HIGH SCALE |                                     |                               |
| Pt100, 3-wire             | -200                  | 850        | -200                                 | 850        | ± 0.5                               | ± 1.0                         |
| Linear (0~20 mA, 4~20 mA) | 0                     | 19999      | 0                                    | 19999      | ± 10 EU                             | ± 50 EU                       |

**ORDERING INFORMATION**



INSTRUMENTS T : +91 22 42537777 x 701 F : +91 22 42537700 E : sales@radix.co.in  
 SENSORS T : +91 22 42537777 x 732 F : +91 22 42537700 E : sensors@radix.co.in  
 GAUGES T : +91 22 42537777 x 733 F : +91 22 42537700 E : gauges@radix.co.in  
 AUTOMATION C : 0-9322405471 C : 0-9324319150 E : automation@radix.co.in