



## VPD-170-IRT

IR Temperature data concentrator

### Features

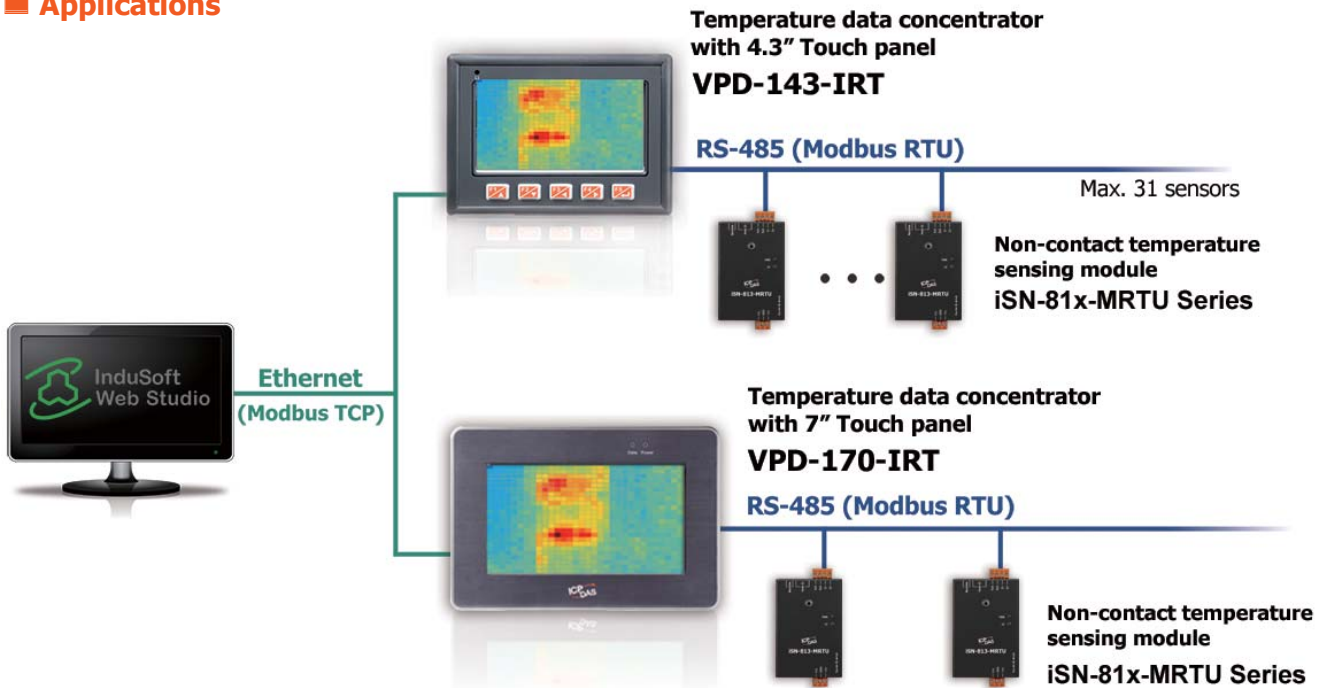
- High-resolution color touch screen
- Front Panel: IP65 Waterproof
- Provide setting Temperature threshold value function
- 9 Signal Relay Output channels for Alarm
- Provide Thermography
- Connect up to 31 iSN-81x-MRTU series module
- Support Modbus TCP/RTU protocol



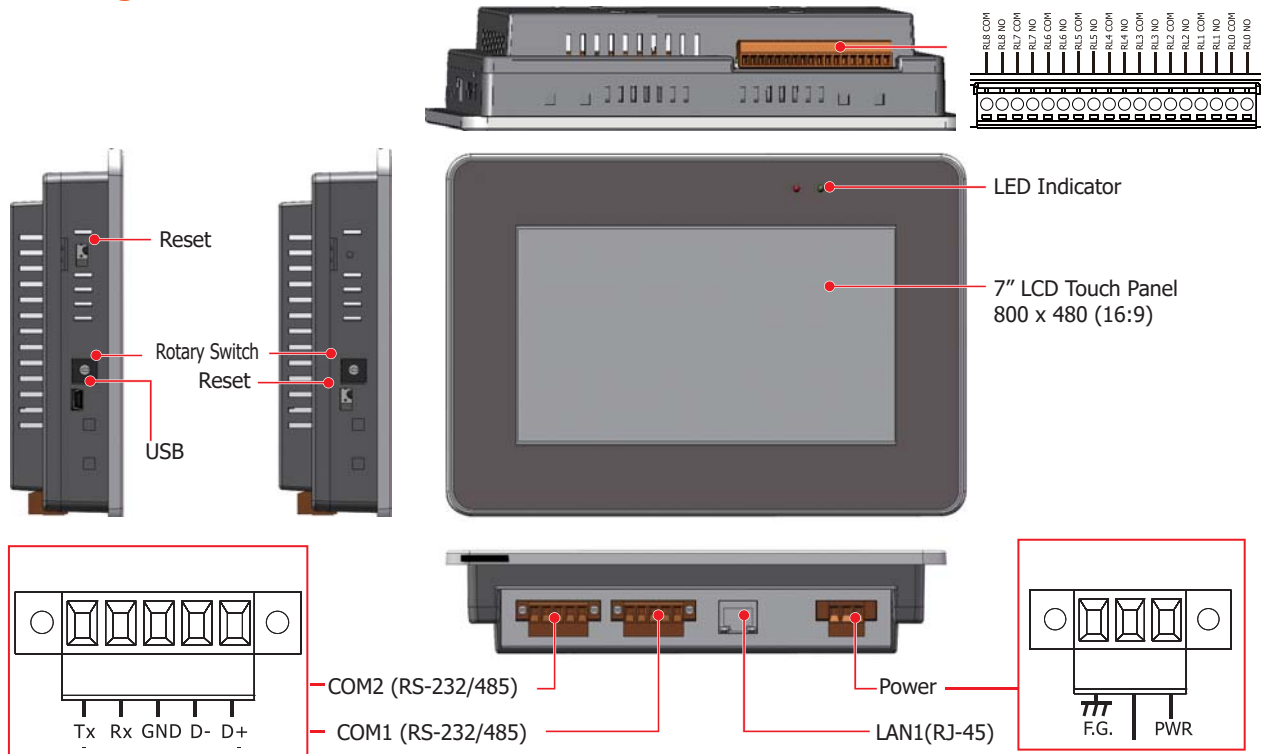
### Introduction

VPD-1xx-IRT series provides Modbus TCP connection to allow the remote monitoring host to connect to VPD-1xx-IRT using Ethernet and access multiple VPD-1xx-IRT's temperature data at once. User can set VPD-1xx-IRT's various functions from the touch screen, and can also see the thermography of the measured object in real time. Through the convenient connection and communication capabilities of VPD-1xx-IRT temperature data concentrator and Ethernet, user can quickly establish a remote monitoring system and centrally manage temperature data.

### Applications



## Pin Assignments



## System Specifications

Main Unit	
CPU	32-bit RISC CPU
Storage	64 MB SDRAM/64 MB Flash
Real Time Clock	Yes
Display	
Type	LCD 7" TFT (Resolution 800 x 480 , 65535 colors),defective pixels <= 3
Backlight Life	20,000 hours
Brightness	400 cd/m2
Touch Panel	Yes
LED Indicators	
Status	2 LED
Relay Output	
Channels	9
Type	Signal Relay (Form A)
Contact Material	Silver Nickel, Gold-covered
Contact Rating	2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC
Operate Time	3 ms (typical)
Release Time	4 ms (typical)
Electrical Endurance	2 x 10 <sup>5</sup> ops.
Mechanical Endurance	10 <sup>8</sup> ops.
Power on Value	Yes
Safe Value	Yes
COM Ports	
Ports	2 x RS-232 (3-pin) or RS-485 (including Self-Tuner) ;2500 VDC isolated
Protocol	Modbus RTU

HMI	
Buzzer	Yes
Rotary Switch	Yes
Rubber Keypad	No
Reset Button	Yes
Ethernet	
Ports	RJ-45 x 1, 10/100 Base-TX
Protocol	Modbus TCP
USB	
Specification	USB 1.1 Client (Firmware updates only)
Connector	Mini-B
Power	
Consumption	3.6 W
Powered from PoE	IEEE 802.3af, Class1 (48 V)
Powered from Terminal Block	+12 ~ 48 VDC
Mechanical	
Dimensions (mm)	217 mm x 153 mm x 33 mm
Installation	Wall Mounting
Ingress Protection Rating	Front Panel: NEMA 4 /IP65
Environment	
Operating Temperature	-10 ~ +60°C
Storage Temperature	-20 ~ +70°C
Humidity	10 ~ 90% RH, Non-condensing

## Ordering Information

<b>VPD-170-IRT CR</b>	IR Temperature data concentrator, 2 x RS-232/RS-485, Ethernet (PoE), Includes XV-board (RoHS)
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