
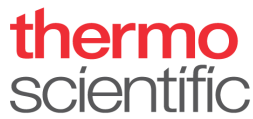


<b>Specifications</b>	<b>Catalog Number and Production Model Number</b>	
	Smart-Vue Pro Duo 915 MHz - SVPHWRMOD012 Smart-Vue Pro Quatro 915 MHz - SVPHWRMOD014 Smart-Vue Pro Duo 868 MHz - SVPHWRMOD022 Smart-Vue Pro Quatro 868 MHz - SVPHWRMOD024	
<b>Application, Rating and Electrical Data</b>		
Packaging Details	<ul style="list-style-type: none"> <li>• Two 3.6 V lithium batteries</li> <li>• Two sensor mounting kit</li> <li>• One mounting holder</li> <li>• One antenna</li> <li>• One 1.5 m/ 5 ft flat cable comes with Duo, Two 1.5 m/5 ft flat cables comes with Quatro.</li> </ul>	
Application	<p>Smart-Vue Pro Duo/Quatro monitors temperature, humidity, and other physical parameters that may be critical in life science, pharmaceutical, research and agri-food sectors etc., these devices provide a flexible solution for monitoring parameters simultaneously on several pieces of equipment in your lab or storage facilities.</p> <p>Smart-Vue Pro solution provides two distinct wireless connectivity models i.e., Bluetooth and LoRaWAN wireless technologies to cover your needs.</p>	
Device Mounting	It can be mounted on flat surface or anywhere with screws and it also contains a magnetic cradle.	
Application Environment	Indoor use only in non-harsh environments	
Operating Conditions	<ul style="list-style-type: none"> <li>• Temperature range: 0°C to +50°C (32°F to 122°F)</li> <li>• Humidity range: 0 - 90% relative humidity non-condensing</li> </ul>	
Storage Conditions	<ul style="list-style-type: none"> <li>• Temperature range: -10°C to +60°C (14°F to 140°F)</li> <li>• Humidity range: 0 to 99.99% relative humidity non-condensing</li> </ul>	
<b>Power Adapter and Specifications</b>		
Model	KUANTEN - KT05W050120CHUH	
Power Requirements	AC Adapter Input: 100-240 V AC, 50/60 Hz - 0.2 A Output: 5 V DC - 1.2 A <b>Note:</b> We recommend to use the Thermo Fisher order part number: SVPACCPWR001	
Output Connector	Micro USB	
Size	3 meters	
Indoor / Outdoor Usage of Power Adapter	Indoor usage only	
Battery Specifications	Two replaceable battery with 3600 mAh, 3.6 V 2 x SAFT LS17500 batteries: Lithium thionyl chloride A-size bobbin cell	
Backup Life	<p>Upto 2 years of battery life without AC adapter.</p> <ul style="list-style-type: none"> <li>• Starting with new batteries</li> <li>• Equipped with 1 digital sensor and 1 Pt100 sensor</li> <li>• 1 reading every 10 minutes</li> <li>• LoRaWAN wireless transmission every 20 minutes</li> <li>• One touchscreen press per day</li> </ul> <p><b>Note:</b> Reset the battery counter on Smart-Vue Pro Duo/Quatro after replacing the new batteries.  <b>Note:</b> When AC adapter is connected the battery discharge shall be very minimal.</p>	
<b>Configuration and Features</b>		
Configuration	LoRaWAN - Configuration is done from Web app like reading interval, limits and delay etc. Bluetooth - Configuration is done from Smart connect app like reading interval, limits and delay etc.	
Main Controller	nRF52 SoC	
Telemetry Data Read Interval	LoRaWAN mode: Minimum - 1 minute; Maximum - 12 hours	

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Telemetry Data Push Interval	LoRaWAN mode: Minimum - 15 minutes; Maximum - 960 minutes
Internal Device Storage	Can store up to 4000 readings per sensor. Maximum 2 sensors reading can be stored for Smart-Vue Pro Duo data logger and 4 sensors reading can be stored for Smart-Vue Pro Quatro data logger.
Measurement Range	Supports the measurement ranges of the compatible probes (details in the probe section)
Connectivity	<ul style="list-style-type: none"> <li>• LoRaWAN: Available LoRaWAN protocol frequencies: 868 MHz &amp; 915 MHz. For LoRa Communication, actual performance will vary and is heavily dependent on building construction and surroundings. Signal strength testing is recommended to verify performance at a specific location.</li> <li>• Bluetooth: Short-range wireless communication protocol generally used in point-to-point connections (i.e., between a smart-phone and a data logger). Wireless range with bluetooth reaches up to about 100 feet (~30 meters).</li> </ul>
<b>Alarms</b>	
Alarm Types	High limit, Low limit, Sensor Fail, Invalid Sensor, Low battery, Communication Lost, Power Lost and Unexpected stop.
Alarm Notification Method	Email, SMS and Voice call (only when alert subscription is purchased)
<b>Networking</b>	
Specifications	LoRaWAN and Bluetooth
Wi-Fi Security Encryption	N/A
Supporting Browsers	Google Chrome, Mozilla Firefox, Apple Safari, Microsoft Edge, Opera Mini for data monitoring on Web application (Internet Explorer is not recommended).
<b>UI</b>	
UI Languages	English, French, Spanish and German
Indication	<ul style="list-style-type: none"> <li>• Visual indication of alarm status on UI</li> <li>• Outer ring indication</li> <li>• Buzzer (Active only with AC Adapter connected)</li> </ul>
<b>Technical Documentation Language</b>	
User Manual	English, French, Spanish and German
<b>Device Dimensions and Construction</b>	
Casing	ABS and Polycarbonate plastic
Size	With Antenna: 102.64 x 160 x 27.85 mm (4.04" x 6.3" x 1.1") Without Antenna: 102.64 x 112.71 x 27.85 mm (4.04" x 4.44" x 1.1")
Shipping Weight	Smart-Vue Pro Duo: 370 g (13.05 oz) Smart-Vue Pro Quatro: 400 g (14.1 oz)
<b>Standards and Regulations</b>	
Device Agency Listings	CE, FCC, IC, TUV Sud, CB, WEEE & ROHS
Power Adapter Agency Listings	CE, cULus, TUV Sud GS Mark, CB, RCM mark
Market Addressed	North America and Europe
Country of Origin	China
<b>Warranty</b>	
Instrument Warranty	1 year
<b>Available Sensors</b>	
PT 100 Sensor	<ul style="list-style-type: none"> <li>• -100°C to +150°C (-148°F to 302°F)</li> <li>• -200°C to + 50°C (-328°F to 122°F)</li> </ul>
Digital Sensor	<ul style="list-style-type: none"> <li>• Temperature Range: -40°C to +80°C (-40°F to 176°F), Cable Length: 100 cm</li> <li>• Temperature Range: -40°C to +80°C (-40°F to 176°F), Cable Length: 350 cm</li> <li>• Temperature Range: -40°C to +120°C (-40°F to 248°F), Cable Length: 100 cm</li> </ul>
Dual Sensor	Temperature -40°C to +100°C (-40°F to 212°F) Relative Humidity 0 to 99.9% RH
4-20 mA Sensor	4-20 mA / 0-5 V / 0-10 V
Differential Pressure Smart Sensor	Pressure measurable from -500 Pa to +500 Pa. -2.0" to +2.0" H <sub>2</sub> O (-50 mm to +50 mm)



# Technical Data Sheet

## Smart-Vue Pro Duo/Quatro

Revision - A

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Temperature, Humidity and CO <sub>2</sub> Smart Sensor	<ul style="list-style-type: none"><li>• Temperature range: 0°C to 50°C (+32° to +122°F)</li><li>• Humidity range: 0% to 95% relative humidity non-condensing</li><li>• CO<sub>2</sub> range: 0% to 9.99% CO<sub>2</sub></li></ul>
Emerald Wireless Remote Sensor	Emerald with Internal Sensor temperature range: -40°C to +85°C (40°F to 185°F) Emerald with External Pt100 Probe temperature range: -50°C to +200°C or -200°C to +50°C (-58°F to 392°F or -328°F to 122°F)
Dry Contact Sensor	NO = Normally Open NC = Normally Closed
SV to SVP PT100 Adapter	This adapter extends the Smart-Vue Classic PT100 probes to Smart-Vue Pro Duo/Quatro data logger.
Smart-Vue Pro 3Wire Adapter	This adapter connects with any 2/3/4 wire generic PT100 probes to Smart-Vue Pro Duo/Quatro data logger. <b>Note:</b> Recommended to use a Generic PT100 sensor of 3 meter length maximum. A 3 meter generic PT100 is tested with this adapter.