


# Technical Data Sheet

## Smart-Vue Pro Duo/Quatro

Revision - A

Specifications	Catalog Number and Production Model Number	
Application, Rating and Electrical Data		
Packaging Details	<ul style="list-style-type: none"> <li>Two 3.6V lithium batteries</li> <li>Two sensor mounting kit</li> <li>One mounting holder</li> <li>One antenna and</li> <li>Two 1.5 m/5 ft flat cables</li> </ul>	
Application	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.  Smart-Vue Pro solution provides two distinct wireless connectivity models i.e., Bluetooth and LoRaWAN wireless technologies to cover your needs.	
Device Mounting	Magnetic holder	
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 (50°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>	
Power Adapter and Specifications		
Model	KUANTEM - KT05W050120CHUH	
Power Adapter Specifications	AC Adapter Input: 100-240 V AC, 50/60Hz - 0.2A Output: 5 V DC - 1.2 A	
Output Connector	Micro USB	
Size / Dimension Power Adapter	3 meters	
Indoor / Outdoor Usage of Power Adapter	Indoor usage only	
Battery Specifications	Two replaceable battery with 3600mAh, 3.6V 2 x SAFT LS17500 batteries: Lithium thionyl chloride A-size bobbin cell Battery Life without AC adapter: 2 years	
Backup Life	<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> Reset the battery counter on Smart-Vue Pro Duo/Quatro after replacing the new batteries. <b>Note:</b> Battery discharge shall be very minimal when AC adapter is connected.	
Configuration and Features		
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 LoRa Module(Murata CMWX1ZZABZ)	
Telemetry Data Read Interval	LoRaWAN Mode: Minimum- 1 minute; Maximum- 12 hours Bluetooth Mode: Minimum- 15 Seconds; Maximum- 12 hours	

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Telemetry Data Push Interval	LoRaWAN mode: Minimum - 15 minutes; Maximum - 960 minutes Bluetooth mode: During auto cloud push Minimum - 1 minute; Maximum - 240 minutes
Internal Device Storage	Can store up to 4000 readings per sensor and maximum 4 sensors reading can be stored on data logger.
Measurement Range	Supports the measurement ranges of the compatible probes (details in the probe section)
Connectivity	Available LoRaWAN protocol frequencies: 868 MHz & 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.  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).
<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
<b>Networking</b>	
Specifications	LoRaWAN and Bluetooth
Wi-Fi Security Encryption	N/A
Hosting	N/A
Supporting Browsers	Google Chrome, Mozilla Firefox, Apple Safari, Microsoft edge, Opera mini for data monitoring on Web application
<b>UI</b>	
UI Languages	English, French, Spanish and German
Indication	•Visual indication of alarm status on UI  •Outer ring indication  •Buzzer (Active only with AC Adapter connected)
<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: 370g (13.05 oz) Smart-Vue Pro Quatro: 400g (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	France
<b>Warranty</b>	
Instrument Warranty	1 year
<b>Probes</b>	
PT 100 Sensor	• -100°C to +150°C • -200°C to + 50°C
Digital Sensor	• -40°C to +80°C (100 cm) • -40°C to +80°C (350 cm) • -40°C to +120°C (100 cm)
Dual Sensor	Temperature -40°C to +100°C Relative humidity 0 to 99.9% RH
4-20 mA Sensor	4-20 mA/0-5 V/0-10 V