

Multi-parameter Verification Recorder

Focus on spatial environment multi-parameter distribution verification

The MPV-010 series multi-parameter verification recorder is a scalable continuous verification system that monitors critical parameters in compliant environments, including:

- Gaseous hydrogen peroxide concentration
- Relative saturation
- Carbon dioxide concentration
- Temperature and humidity



Application Fields:



- Hydrogen peroxide distribution verification for sterile testing isolators and transfer chambers



- Temperature and humidity distribution verification for pharmaceutical stability test chambers



- CO₂ incubator
CO₂ concentration distribution verification

- Hydrogen peroxide concentration distribution in spatial decontamination processes...

The product supports connecting up to 8 sensor probes for single-point or multi-point environmental parameter verification. Data is stored in real-time and verification results can be printed wirelessly via a Bluetooth thermal printer. The audit trail version also enables multi-user and permission management, and features audit trail functionality.



Standard Configuration

Main unit: 1 unit
 Sensor probes and cables: Several
 Device charger: 1 unit
 Bluetooth thermal printer
 and charger: 1 set
 Flight case: 1 unit

Technical Specifications	
Operating screen	7-inch touch screen, 800*480 resolution
Input channels	Default supports 1-8 channels
Sensor interface	Features an aviation-grade interface for rapid replacement
Data refresh time	5 seconds
Verification records	Supports real-time verification data logging and printing
Wireless printer	Includes a Bluetooth thermal printer (110mm width)
Protection rating	IP54
Operating temperature	Operating range: 0-55° C, 0-90%RH (non-condensing) *Applies to main unit only (excludes sensor probes)
Storage temperature	Storage conditions: -10-55° C, 0-90%RH (non-condensing)
Power consumption	Power consumption: 20W; Battery supports 8+ hours continuous operation
Dimensions	Main unit dimensions: 230mm (L) × 180mm (W) × 52mm (H)
Weight	Weight: 1.2kg (main unit)
Supported sensors	Hydrogen Peroxide Concentration Sensor (0-2000ppm, 0-100%RS)
	Carbon Dioxide Concentration Sensor (0-20% CO2) / Custom CO2 Concentration Range
	Temperature and Humidity Sensor (-20°C~80°C, 0-100%RH)

Version Permissions			
Software Features	Description	MPV-010A-BASE	MPV-010B-Audit Trail Edition
Verification Mode Selection	Users can select different verification modes and sampling intervals	✓	✓
Verification Records	Supports real-time recording and printing of verification data	✓	✓
User and Permission Settings	Supports multi-user login	✓	✓
	User creation	✓	✓
	User modification	✓	✓
	User deletion	✓	✓
System Time Calibration	Supports system time calibration	✓	✓
Verification Data Management	Data viewing	×	✓
	Data export	×	✓
	Data deletion	×	✓
Audit Trail	Supports export of user operation logs	×	✓

Regulatory References:

1. Good Manufacturing Practice for Pharmaceutical Products (2010 Revision) and its Annex: Validation and Verification;
2. EudraLex Volume 4: EU Guidelines for Good Manufacturing Practice for Medicinal Products for Human and Veterinary Use and its Annex 15: Qualification and Validation;
3. U.S. Code of Federal Regulations, Title 21, Part 211: Current Good Manufacturing Practice for Finished Pharmaceuticals;
4. ISPE Baseline Guide, Volume 5: Commissioning and Qualification - Science and Risk-Based Approach to Delivery of Facilities, Systems, and Equipment;
5. GAMP*5: Good Automated Manufacturing Practice Guide - A Risk-Based Approach to Compliant GxP Computerized Systems.

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