Nihon Kohden · Patiëntmonitoring

SVM-7100

SVM-7130 / SVM-7160

Spot-check vital signs monitor from Nihon Kohden with 8-inch colour screen for NIBP and SpO2, temperature optional. Spot and Continuous mode, MEWS and HL7 output. SVM-7130 and SVM-7160.

Screen	Weight	Battery life
8-inch colour TFT LCD	**2.1 kg**	**6 hours (test…**

Description

The SVM-7100 series (SVM-7130 and SVM-7160) is a vital signs monitor from Nihon Kohden for spot-check measurements, with an 8-inch colour screen. The monitor measures NIBP and SpO2; temperature is optional. The SVM-7160 uses Nihon Kohden SpO2, the SVM-7130 Masimo SpO2.
In addition to Spot mode, a Continuous mode is available. The monitor offers a Modified Early Warning Score (MEWS), customisable shortcut keys and HL7 output to the hospital network.

Specifications

Type	Vital Signs Monitor / Spot Check Monitor for monitoring and alarming of NIBP (systolic, diastolic, MAP), pulse rate, SpO2 and temperature in adult, paediatric and neonatal patients in hospital environments. Two monitoring modes: Spot mode and Continuous mode.
Versions (SpO2 technology)	SVM-7160: Nihon Kohden SpO2 and NIBP. SVM-7130: Masimo SpO2 and NIBP. Temperature is an option on both.
Screen	8-inch colour TFT LCD; resolution 800 × 600 dots; visible area 162.0 × 121.5 mm.
Display	One waveform (SpO2 pulse wave); numeric: NIBP (SYS, DIA, MAP), SpO2, SpO2-PR and temperature. Sweep speed 6.25, 12.5, 25 or 50 mm/s. Shortcut keys at the bottom of the screen are customisable.
NIBP	Oscillometric (deflation and inflation mode). Measurement range adult/child: SYS 40–280 mmHg, DIA 10–235 mmHg, MAP 10–280 mmHg. Neonate: SYS 30–140 mmHg, DIA 10–110 mmHg, MAP 10–140 mmHg. Measurement modes: manual, STAT, periodic and SIM; 1 automatic re-measurement. Maximum cuff pressure error: ±3 mmHg (0–300 mmHg).
SpO2 and pulse rate	Declared range 70–100% SpO2. SVM-7160 (Nihon Kohden): accuracy (rms) ±2% SpO2 at 80–100% and ±3% SpO2 at 70–80%; pulse rate 30–300 beats/min, ±3% ±1 beat/min. SVM-7130 (Masimo): accuracy depends on the sensor; pulse rate 25–240 beats/min.

Temperature (option)	Optional with EXERGEN temporal thermometer (only available in Europe) or RADIANT ear thermometer. With the RADIANT thermometer: display range 34–42.2 °C.
Early warning score	Modified Early Warning Score (MEWS): determines the severity of the patient's condition based on, among other things, SpO2, NIBP, temperature and respiratory rate; can be set in advance.
Workflow	Illustrated on-screen tutorials for correct use, customisable shortcut keys and transfer of measured data to the electronic patient record (EPR) system via HL7 with one touch.
Review and storage	Spot mode: Spot Table and Alarm History. Continuous mode: Spot Table, Trend Table, Trend Graph and Alarm History. Maximum of 10,000 data entries per view; the trend graph covers the past 120 hours.
Alarms	Alarm levels: crisis, warning and advisory. Alarm silence 1, 2 or 3 minutes; alarm suspend 1, 2, 3 minutes or off; alarm delay adjustable 0–30 s. Delay to the central monitor <= 4 seconds.
Network and interfaces	HL7 output to the hospital network (Spot and Continuous mode). In Continuous mode, LS-NET connection to the Nihon Kohden monitor network (central monitor, other bedside monitors and server). Optional wireless LAN module QI-710P (IEEE 802.11a/b/g/n).
Dimensions (W × H × D)	232 × 246 × 135 mm (excluding protruding parts).
Weight	2.1 kg (monitor). Battery pack SB-710P: 325 g; optional recorder module WS-710P: 0.25 kg ± 0.1 kg.
Battery	Rechargeable lithium-ion battery SB-710P (1 piece), 7.2 V. Operating time 6 hours (new, fully charged battery at 25 °C, energy-saving mode on, no alarm, no options; SpO2 is measured and NIBP every 15 minutes). Charging time: 90% in 6 hours, fully in 8 hours.
Power	100–240 V AC (±10%), 50 or 60 Hz (±2%), 140 VA.
Environment	Operation: 5–40 °C, 15–85% RH (non-condensing), 700–1060 hPa. Transport and storage: –20 to +65 °C, 10–95% RH, 700–1060 hPa. Protection against falling water: IPX1 (not for the temperature option).
Recording (option)	Optional recorder module WS-710P: thermal array recording, recording width >= 46 mm, paper speed 12.5, 25 or 50 mm/s; manual, periodic and alarm recording.

Request SVM-7100

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