

S/5™ MRI Monitor

All-in-one monitor for MRI environment



Features

- Validated for use in MRI scanners up to 1.5 Tesla outside the magnetic field strength of 20 Gauss without additional configuration
- Based on the standard S/5™ Compact Monitor
 - Extra large 12.1" in active matrix color display and optimized screen lay-out
 - Superior usability and user interface including modes/pages, direct keys, online help
 - Network and Central monitoring possibility
 - Continuity of patient vital sign data also with MemCard™
 - Integrated Anesthesia record keeping with deioRecorder for Anesthesia offers possibility to create and print out automated anesthesia record
 - Built-in batteries charged automatically when connected to mains power
 - True modularity offers easy configurability and upgrading if needs evolve

Modules

- Hemodynamic M-MRI and M-MRIP modules developed specially for the MRI environment to measure ECG, SpO₂, NIBP and two invasive pressures
- Airway gas measurement with anesthetic agents and Patient Spirometry™ available with Datex-Ohmeda S/5 Compact Airway Modules

Accessories

- Specially designed ECG and SpO₂ accessories for use in the MRI environment
- Standard accessories can be used for NIBP and airway gas monitoring
- Use recommended accessories for InvBP measurement

S/5 MRI Monitor

Technical specifications

Indicated for use with magnets of field strength 1.5 Tesla or less.

Frame, F-CM1

Frame	2+2 plug in module slots frame with 12.1 in Active Matrix color TFT LCD display
Recorder option, N-CMREC1	Built-in three-channel thermal array recorder
Battery	Built-in NiMH battery (2 pcs)
Battery capacity	Up to 2.5 h typical on full charge at 23 °C
Weight (w/o modules)	11 kg/24.2 lbs

MRI Shield, N-MRI1

Shield	Shield has filtering system for ECG, InvBP and mains power to minimize electromagnetic noise
Shield size (WxDxH)	586 x 257 x 383 mm/ 23.1 x 10.1 x 15.1 in
Weight	11.2 kg/ 24.7 lbs
Mounting	Portable Monitor Wall Mount

Note! Shield must be mounted outside magnetic field strength of 20 Gauss.

MRI Multiparameter Modules, M-MRI and M-MRIP

Combines ECG, SpO₂ and NIBP (and two invBP with M-MRIP) parameters into one compact module. Has an MRI gradient noise filtering for ECG.

ECG

Measurement method	3-lead ECG
Lead selection	I, II, III
Heart rate	30 to 230 bpm
Alarms	Asystole, leads-off detection, adjustable high and low alarm limits for heart rate

Invasive blood pressure

Measurement range	-40 to 320 mmHg
Alarms	Adjustable high and low alarm limits for systolic, diastolic and mean pressure, or off

Pulse rate range 30 to 250 bpm

Pulse Oximetry (SpO₂)/pleth

Measurement range	40 to 100 %
Alarms	Probe off, no probe, adjustable high and low alarm limits for SpO ₂

Pulse rate

Measurement range	30 to 250 bpm
Alarms	Adjustable high and low alarm limits for pulse rate

Displays plethysmographic pulse waveform

NIBP

Measurement principle	Oscillometric with linear deflation
Measurement intervals	Manual and automatic with selectable intervals or continuous STAT mode
Alarms	Cuff loose, cuff occlusion, adjustable high and low alarm limits for systolic, diastolic, and mean pressure, or off

Available Measurement Modules

	ECG	SpO ₂ / Pleth	NIBP	InvBP x2	CO ₂	N ₂ O	Patient O ₂	Agents	Agent id.	Spiro- metry
M-MRI	■	■	■							
M-MRIP	■	■	■	■						
M-miniC					■					
M-CO					■	■	■			
M-COV					■	■	■			■
M-CAIO					■	■	■	■	■	
M-CAIOV					■	■	■	■	■	■

For more information on parameter modules, please refer to separate Datex-Ohmeda parameter module technical specifications sheets.

Accessories

ECG monitoring is indicated only with use of the MRI ECG lead set.

MRI ECG lead set

Materials	Totally non-metallic clips and cable
Length	6m/18 ft
Lead standard	IEC /AAMI

SpO₂ monitoring is indicated only with the use of MRI SpO₂ sensors.

MRI SpO₂ sensors

Sensor type	Finger sensor for adult (SAS-FMR), Wrap sensor for pediatric (SAS-WMR)
Materials	Totally non-metallic sensor head and cable
Length	6 m/18 ft

NIBP and Gas monitoring

For NIBP and airway gas measurements use standard Datex-Ohmeda accessories.

Invasive blood pressure

For InvBP measurement use recommended Datex-Ohmeda accessories.

NOTE: Before using InvBP catheters make sure they can be used in the MRI environment.

NOTE: Transducer and electrical cable must be kept 0.5 meters from the magnet, outside the imaging area.

Network and slave screen option

Compatible with Datex-Ohmeda Network and Central for centralized viewing of patient data. The following components are MRI specific.

Fiber Optical Cable, 90259	850 nm full duplex multimode fiber, ST type connectors
Fiber Optical Converter (N-FOC)	McBasic 10 Mbps Ethernet media converter
Dimensions (WxDxH)	38 x 118 x 113mm / 1.5 x 4.6 x 4.4 in
Weight	0.9 kg/1.98 lbs

For more information for the necessary hardware please refer to S/5 Network and Central Configuration sheets.

MemCard Option

N-CMMEM S/5 MemCard Option

Activates MemCards to transfer the trended data of patient vital signs.

Power supply

Rated voltage range and frequencies	100 to 240V \pm 10 %, 50/60 Hz
Maximum power consumption	140 VA
Protection class	Class I
Grounding	Hospital grade

Environmental conditions

Operating temperature	+10 to +35°C (50 to 95°F)
Storage temperature	-10 to +50°C (14 to 122°F)
Relative humidity	10 to 90 % non-condensing

Ordering Information

Description	Order code
Frames	
S/5 Frame w/Display	F-CM1
Shield	
MRI Shield for Compact Monitor	N-MRI1
Softwares	
S/5 Anesthesia Software	L-CANE02
Options	
S/5 MemCard Option	N-CMMEM
Recorder option	N-CMREC1
Optical cable 20m	90259
Fiber Optical Converter	N-FOC
Upgrades	
S/5 Network Upgrade*	U-CMNET
S/5 MemCard Upgrade*	U-CMMEM
Recorder Upgrade	U-CMREC1
Anesthesia record keeping	
deioRecorder for Anesthesia**	L-ARK

* For upgrading details, please refer to S/5 LIFE upgrade program

** Check availability and distribution channel in your market

Network option as a standard

MRI compatible accessories

Description	Order code
ECG	
3-lead MRI cable, AAMI, English	897986
3-lead MRI cable, IEC, English	897987
Electrodes, disposable, pkg of 50 pcs	572683

SpO₂

Finger MRISat sensor	SAS-FMR
Flex MRISat sensor	SAS-WMR

NIBP

Adult hose, black, 6 m/20 ft	879739
Infant hose, white, 6 m/20 ft	890639

Invasive blood pressure

Reusable transducer, SensoNor	78000
844 , 3 m/ 10 ft, sensitivity 50mV/V/cmHg	
Disposable Flushing kit for transducer 78000	78001
Reusable transducer, Spectramed	165700
P10EZ-1, 045 m/1.5 ft, sensitivity 50mV/V/cmHg	
Disposable Flushing kit for transducer 165700	16571
Adapter cable, 3.8 m/12 ft for transducer 165700	54586

Airway gas

Disposable anesthesia gas sampling line, 6 m/20 ft	73306
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Spirometry tubes

Disposable Spirometry tube, yellow, 6 m/20 ft	891191
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D-lite sensors

Disposable D-lite+sensor adult, pkg of 50 pcs	896952
Disposable Pedi-lite+sensor pediatric, pkg of 50 pcs	8001948

Mounts

Portable monitor wall mount with 12 in long fixed arm	8000725
Portable monitor wall mount with 15 in long pivoted arm	572238



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