WERTHSYSTEMS
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SMART-MED MI-RS 912

Medical High Speed RS-232 Isolator with 4 KV Isolation





- IEC 60601-1-2 :2014 tested Isolator with 4000V Optical Isolation
- secures your System - Leakage Current, Surge and Overvoltage protection
- easy to install - Plug & Play and Port powered
- durable - none aging Parts and 5 Years Warranty
- optimal Signal Quality - Single Channel Design with Auto Data Correction



Isolation + Patient Environment

The MI-RS 912 is a state of the art High Speed Serial Port Isolator which is EN60601-1-2 tested. Every single unit is tested on performance and isolation levels, up to 4000 V AC.
This guarantees a ZERO DEFECT RATE.

The new MI-RS 912 Serial Port Isolator can be used for medical electrical Systems in order to reduce the leakage current and to isolate the applied Parts from the IT Devices. The MI-RS 912 protects your Devices against voltages surges, lightning strikes, GND loops and noise conditions. Due to Plug & Play support, there is no extra driver needed. The MI-RS 9012 only need less than 10 mA Current from the RS-232 Port, so it has a very high compatibility to various Chipsets and Devices and it don't need any additional Power Supply. There is a high Speed optical Isolator installed inside of the MI-RS 912 so very high transfer rates up to 912600 bps are supported, too. It also reduce high frequency noise and interferences due to a special filter System.

Technical Data SMART-MED MI-RS 912

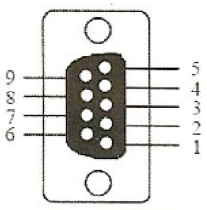
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Description	MI-RS 912
Part Number	2000529
Isolation Type	optical Isolation
Isolation Voltage	4 KV AC for 1 Minute (50/60 Hz), 4 KV DC for 1 Minute
Leakage Current	less than 0.4 Microampere
Surge Protection	yes, reinforced TAZ Diode with max. 600 W/Sec.
Electrostatic Protection	+/- 15 KV ESD (air)
supported transfer rate	300 to 912600 bps
supported Cable length	up to 5 m
Input Connector	DB9 Female
Output Connector	DB9 Male
Communication Standard	EIA / TIA RS-232 Standard
Isolated Lines	TX, RX, GND
Ground Isolation	Yes
Flow Control	Auto-Turnaround Data Direction
Plug & Play	Yes, Auto-Configuration, driverless
Power Supply	not needed (Port powered)
Color	black
Power Consumption	less than 10 mA
Dimensions	76.3x33.9x17.8 mm (WxHxD)
Weight	35 g
Housing	ruggedized ABS
IP Classification	IP 40
Temperature Range	-40 °C to 85 °C
Production Control	ISO 9001 / ISO 13485
Warranty	5 Years
Safety Level	100% single unit test of function and isolation strength
Conformity	CE, RoHS
Norms	IEC60601-1-2 :2014
Mode of Operation	Continuous Operation
MTTF	more than 1000 years at 25° to 40 °C in 24/7 use
Scope of Delivery	Manual, RS-232 EMI Interference Filter Module

Pin Layout MI-RS 912

Female DB-9

Signal	TX	RX	GND
Pin	2	3	5



Male DB-9

Signal	RX	TX	GND
Pin	2	3	5

