



1-SCM-R-SG120-2, 1-SCM-R-SG350-2 and 1-SCM-R-SG1000-2

Strain Gage Adapters

Special Features

- Conditions output for quarter bridges
- 120 Ohm, 350 Ohm or 1000 Ohm completion resistor
- Features TEDS for automatic adapter configuration
- For use in harsh environments: waterproof, dustproof, shockproof, vibrationproof
- Only to be used with the SomatXR MX840B-R Universal Amplifier and MX411B-R Highly Dynamic Amplifier

For use with

SomatXR Ultra-Rugged DAQ

SomatXR Features

- Rugged, mobile data acquisition in a flexible, modular system
- Waterproof, dustproof, shockproof, vibrationproof
- Ultra-rugged: IP65/IP67, MIL202
- Wide thermal range: -40 to 80 °C
- Secure and efficient storage of measurement data
- Accessible from anywhere through the CX23-R web interface



Specifications

General Specifications		
Versions	Ω	120, 350 and 1000
Compatible MX modules	-	MX840B-R and MX411B-R
Permissible cable length between adapter and quarter bridge	m	< 30
Operating temperature range	°C [°F]	-40 ... +80 [-40 ... +176]
Storage temperature range	°C [°F]	-40 ... +85 [-40 ... +185]
Relative humidity range	%	5 ... 100
Protection class	-	III
Degree of protection	-	IP65/IP67 per EN 60529; Cable, adapter body - IP67; Connection terminal - IP20
EMC requirements	-	Per EN61326-1:2012
Mechanical test (vibration; shock)	-	±10g; ±75g
Dimensions (length)	cm	35
Weight	g	110

1-SCM-R-SG120-2 Quarter-Bridge Completion Adapter, 120 Ω
1-SCM-R-SG350-2 Quarter-Bridge Completion Adapter, 350 Ω
1-SCM-R-SG1000-2 Quarter-Bridge Completion Adapter, 1 kΩ

ODU Pin	Function	Terminal Pin
-	Excitation (+)	1
8	Signal (-)	3
-	Sense (+)	2
-	Shield	4
13	TEDS	NC
14	TEDS	NC

Instructions

1. For a water tight seal at the terminal connector, apply included Dielectric Protector (SO-122-1002292) to the terminals and screws.
2. Dielectric Protector may be removed with a clean cloth and reapplied as needed.



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measure and predict with confidence

