# 7710 20-channel Solid-state Differential Multiplexer

### with Automatic CJC

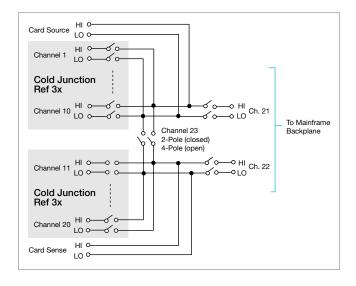
### Datasheet



The 7710 plug-in module offers 20 channels of 2-pole or 10 channels of 4-pole relay input that can be configured as two independent banks of multiplexers. The relays are solid state, providing long life and low maintenance. Solid-state relays usually have 100 times longer life than mechanical relays. It is ideal for long-term data logging applications as well as for demanding high-speed applications.

### Key Features

- 20 channels for general purpose measurements with scanning speeds up to 800 channels/s
- High speed production or ATE testing up to 500 channels/s
- · Long lifetime solid state relays
- Removable screw terminals



### **Specifications**

ny channel to any channel (1–20) 60 VDC or 42 V ns, 100 mA switched, 6 W, 4.2 VA maximum.  90 VDC or 300 Vrms (425 V peak) maximum between by terminal and chassis.  1010 operations at cold switching or max signal level uaranteed by design).  mA per channel continuous, 25 mA during initial
ns, 100 mA switched, 6 W, 4.2 VA maximum.  O VDC or 300 Vrms (425 V peak) maximum between by terminal and chassis.  I010 operations at cold switching or max signal level uaranteed by design).  mA per channel continuous, 25 mA during initial
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ulse.
10 $\Omega$ per channel or <5 $\Omega$ per conductor. Refer to the 710 User's Guide for measurement considerations hen used on the instrument 1 $\Omega$ or 10 $\Omega$ ranges.
3 μV per pair.
3 nA @ 23°C (per channel); additional 0.13 nA/°C 23°C.
5 mm removable screw terminals, #20 AWG ire size.
Two Terminals: >10 <sup>10</sup> $\Omega$ @ 23°C, > 8×10 <sup>9</sup> $\Omega$ @ 50°C,
100 pF.

Crosstalk (CH-CH, 500 kHz, 50  $\Omega$  Load): <-40 dB.

Scanning Speeds (see mainframe specifications for details)

Multiple Channels, Into Memory

**7710 Scanning DCV:** >800.

7710 Scanning DCV alternating 2W $\Omega$ : >400.

20 channels of 2-pole relay input. All channels

## General

	configurable to 4-pole.
Relay Type	Solid state opto-coupled FET.
Actuation Time	<0.5 ms (100 mA load).
Environmental and S	afety
	<b>Operating Environment:</b> Specified for 0° to 50°C. Specified to 80% R.H. at 35°C.
	Storage Environment: -25° to 65°C.
	EMC: Conforms to European Union EMC Directive.
	Safety: Conforms to European Union Low Voltage Directive
	RoHS: Conforms to European Union RoHS Directive
Weight	0.45 kg (1 lb).

### **Supplied Accessories**

and the second s	
CC-92-1	Set of 20 Cable Ties
TL-23	Screwdriver

#### **Available Services**

7710-3Y-EW 1-year factory warranty extended to 3 years from date of shipment

### **Ordering Information**

7710	20-channel Solid-state Differential Multiplexer Module
Warranty	1 year



#### **Contact Information:**

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