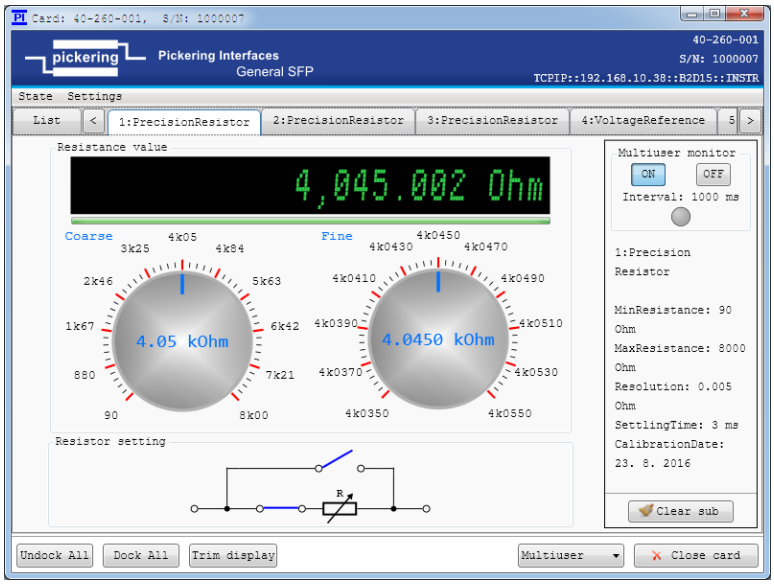

Soft Front Panel for Programmable Resistor Modules

PXI Part Number (Number of Channels)		Resistance Range: 1Ω 10Ω 100Ω 1kΩ 10kΩ 100kΩ 1MΩ 10MΩ 100MΩ	Resolution
40-298-010 (18)	40-298-110 (9)		0.125Ω
40-298-011 (18)	40-298-111 (9)		0.25Ω
40-298-012 (18)	40-298-112 (9)		0.5Ω
40-298-013 (18)	40-298-113 (9)		1Ω
40-298-014 (18)	40-298-114 (9)		2Ω
40-298-020 (9)	40-298-120 (4)		0.125Ω
40-298-021 (9)	40-298-121 (4)		0.25Ω
40-298-022 (9)	40-298-122 (4)		0.5Ω
40-298-023 (9)	40-298-123 (4)		1Ω
40-298-024 (9)	40-298-124 (4)		2Ω
40-298-030 (9)	40-298-130 (4)		0.125Ω
40-298-031 (9)	40-298-131 (4)		0.25Ω
40-298-032 (9)	40-298-132 (4)		0.5Ω
40-298-033 (9)	40-298-133 (4)		1Ω
40-298-034 (9)	40-298-134 (4)		2Ω
40-298-040 (6)	40-298-140 (3)		0.125Ω
40-298-041 (6)	40-298-141 (3)		0.25Ω
40-298-042 (6)	40-298-142 (3)		0.5Ω
40-298-043 (6)	40-298-143 (3)		1Ω
40-298-044 (6)	40-298-144 (3)		2Ω
40-298-050 (6)	40-298-150 (3)		0.125Ω
40-298-051 (6)	40-298-151 (3)		0.25Ω
40-298-052 (6)	40-298-152 (3)		0.5Ω
40-298-053 (6)	40-298-153 (3)		1Ω
40-298-054 (6)	40-298-154 (3)		2Ω

Graphical Representation of the 40-298 Precision Resistor Module Range

Product Order Codes

0.125 Ω Resolution

Range	No. of Channels	Order Code	No. of Channels	Order Code
2 Ω to 31.5 Ω	9	**40-298-110**	18	**40-298-010**
2.5 Ω to 472 Ω	4	**40-298-120**	9	**40-298-020**
3 Ω to 6.97 kΩ	4	**40-298-130**	9	**40-298-030**
3.5 Ω to 102 kΩ	3	**40-298-140**	6	**40-298-040**
4 Ω to 1.51 MΩ	3	**40-298-150**	6	**40-298-050**

0.25 Ω Resolution

Range	No. of Channels	Order Code	No. of Channels	Order Code
2 Ω to 62.1 Ω	9	**40-298-111**	18	**40-298-011**
2.5 Ω to 925 Ω	4	**40-298-121**	9	**40-298-021**
3 Ω to 13.6 kΩ	4	**40-298-131**	9	**40-298-031**
3.5 Ω to 201 kΩ	3	**40-298-141**	6	**40-298-041**
4 Ω to 2.97 MΩ	3	**40-298-151**	6	**40-298-051**

0.5 Ω Resolution

Range	No. of Channels	Order Code	No. of Channels	Order Code
2 Ω to 122 Ω	9	**40-298-112**	18	**40-298-012**
2.5 Ω to 1.81 kΩ	4	**40-298-122**	9	**40-298-022**
3 Ω to 26.7 kΩ	4	**40-298-132**	9	**40-298-032**
3.5 Ω to 395 kΩ	3	**40-298-142**	6	**40-298-042**
4 Ω to 5.82 MΩ	3	**40-298-152**	6	**40-298-052**

1 Ω Resolution

Range	No. of Channels	Order Code	No. of Channels	Order Code
2 Ω to 239 Ω	9	**40-298-113**	18	**40-298-013**
2.5 Ω to 3.55 kΩ	4	**40-298-123**	9	**40-298-023**
3 Ω to 52.4 kΩ	4	**40-298-133**	9	**40-298-033**
3.5 Ω to 773 kΩ	3	**40-298-143**	6	**40-298-043**
4 Ω to 11.4 MΩ	3	**40-298-153**	6	**40-298-053**

2 Ω Resolution

Range	No. of Channels	Order Code	No. of Channels	Order Code
2 Ω to 470 Ω	9	**40-298-114**	18	**40-298-014**
2.5 Ω to 6.97 kΩ	4	**40-298-124**	9	**40-298-024**
3 Ω to 102 kΩ	4	**40-298-134**	9	**40-298-034**
3.5 Ω to 1.51 MΩ	3	**40-298-144**	6	**40-298-044**
4 Ω to 22.3 MΩ	3	**40-298-154**	6	**40-298-054**

Accessories:

Calibration lead for 4-wire resistance measurement using DMM - 37-pin D-type socket to shrouded 4mm bayonet plugs,

1 meter length: 40-975-037-1m

Adapter to convert from male 37-pin D-type to male 78-pin D-type, converting from 2-wire to 4-wire channel connections. Please contact you local sales office for details.

Mating Connectors & Cabling

For connection accessories for the 40-298 series please refer to the 90-007D 37-pin D-Type Connector Accessories data sheet where a complete list and documentation can be found for accessories, or refer to the website

Other Resistor Modules

Pickering Interfaces manufacture a range of variable resistor modules in the PXI format. If you have a requirement for a variable resistor module please contact your local sales office with the information below and we will advise you on the best solution for your application.

Lowest Resistance †	
Highest Resistance	
Resistance Resolution	
Overall Accuracy	
Maximum Power/Current	
Number of Channels (variable resistors)	

† Resistance is as measured across the user connector terminals, minimum resistance must have a non-zero value.

Product Customization

Pickering PXI modules are designed and manufactured on our own flexible manufacturing lines, giving complete product control and enabling simple customization to meet very specific requirements. Customization can include:

- Alternative resistance range
- Alternative resolution
- Different number of channels
- Different performance specifications

All customized products are given a unique part number, fully documented and may be ordered at any time in the future. Please contact your local sales office to discuss.