Bridge and Strain Conditioner Card Selection Guide

Card	28144	28114	28124	28124-EA	28154	28164	28108	28118	28458
Type	AC/DC Voltage w/ Constant Voltage and Current Excitation	AC/DC Voltage w/ Constant Voltage and Current Excitation	AC/DC Voltage w/ Constant Voltage and Current Excitation	Enhanced Accuracy AC/DC Voltage w/ Constant Voltage and Current Excitation	High Common Mode AC/DC Voltage w/ Constant Voltage and Current Excitation	High Common Mode AC/DC Voltage w/ Constant Voltage and Current Excitation	AC/DC Voltage w/ Constant Voltage Excitation	AC/DC Voltage w/ Constant Voltage Excitation	AC/DC Voltage w/ Constant Current Excitation
Common Mode Voltage Range	10 V	10 V	10 V	10 V	350 V	500 V	10 V	10 V	10 V
Channels/Card	4	4	4	4	4	4	8	8	8
Applicable Transducer	Static or dynamic strain with BCC™, pressure, RTD, load, accel., AC/DC filter/amp, any bridge-type sensor	Static or dynamic strain with BCC™, pressure, RTD, load, accel., AC/DC filter/amp, any bridge-type sensor	Static or dynamic strain with BCC™, pressure, RTD, load, accel., AC/DC filter/amp, any bridge-type sensor	Static or dynamic strain with BCC™, pressure, RTD, load, accel., AC/DC filter/amp, any bridge-type sensor	Static or dynamic strain with BCC™, pressure, RTD, load, accel., AC/DC filter/amp, any bridge-type sensor	Static or dynamic strain with BCC™, pressure, RTD, load, accel., AC/DC filter/amp, any bridge-type sensor	Strain, pressure, RTD, load, accel., AC/DC filter/amp, any full bridge-type sensor	Strain, pressure, RTD, load, accel., AC/DC filter/amp, any full bridge-type sensor	Dynamic strain with BCC™, AC filter/amp
Interface	2-10 wire Constant Voltage w/ programmable bridge completion and shunt calibration 2/4 wire Constant Current	2-10 wire Constant Voltage w/ programmable bridge completion and shunt calibration 2/4 wire Constant Current	2-10 wire Constant Voltage w/ programmable bridge completion and shunt calibration 2/4 wire Constant Current	2-10 wire Constant Voltage w/ programmable bridge completion and shunt calibration 2/4 wire Constant Current	2-10 wire Constant Voltage w/ programmable bridge completion and shunt calibration 2/4 wire Constant Current	2-10 wire Constant Voltage w/ programmable bridge completion and shunt calibration 2/4 wire Constant Current	2-6 wire with shield	2-6 wire with shield	2-wire with shield

Card	28144	28114	28124	28124-EA	28154	28164	28108	28118	28458
Excitation	Constant Voltage: 0 to 20.475 V; BCC: 0 to 20.475 mA	Constant Voltage: 0 to 20.475 V; BCC: 0 to 20.475 mA	Constant Voltage: 0 to 20.475 V; BCC: 0 to 20.475 mA	Constant Voltage: 0 to 20.475 V; BCC: 0 to 20.475 mA	Constant Voltage: 0 to 20.475 V; BCC: 0 to 20.475 mA	Constant Voltage: 0 to 20.475 V; BCC: 0 to 20.475 mA	Constant Voltage: 0 to 20.475 V	Constant Voltage: 0 to 20.475 V	BCC: 0, 10, 15, 20 mA
Bandwidth	> 1.5 MHz (Option W)	190 kHz	250 kHz	250 kHz	250 kHz	25 kHz	100 kHz	190 kHz	190 kHz
Gain	x1/16 to x8192 w/ 0.05% resolution	x1/16 to x1024 w/ 0.05% resolution	x1/16 to x8192 w/ 0.0125% resolution	x1/16 to x8192 w/ 0.003% resolution	x1/16 to x8192 w/ 0.025% resolution	x1/16 to x8192 w/ 0.025% resolution	x1/16 to x8192 w/ 0.05% resolution	x1/16 to x1024 w/ 0.05% resolution	x1/16 to x1024 w/ 0.05% resolution
Filter	4-Pole Flat/ Pulse Low-Pass w/ optional REZCOMP; 8-Pole Flat/ Pulse Low-Pass or 8-Pole Band-Pass	4-Pole Flat/ Pulse Low-Pass	4-Pole Flat/ Pulse Low-Pass	8-Pole Flat/ Pulse Low-Pass	4-Pole Flat/ Pulse Low-Pass	4-Pole Flat/ Pulse Low-Pass	4-Pole Flat/ Pulse Low-Pass	4-Pole Flat/ Pulse Low-Pass	4-Pole Flat/ Pulse Low-Pass
Cutoff Frequencies	Flat: 2 Hz to 204.6 kHz Pulse: 1 Hz to 102.3 kHz	FX02: 300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz FX03: 10 kHz, 20 kHz, 40 kHz, 80 kHz, 100 kHz	Flat: 2 Hz to 100 kHz Pulse: 1 Hz to 100 kHz	Flat: 2 Hz to 51 kHz Pulse: 1 Hz to 25.5 kHz	2 Hz to 100 kHz	2 Hz to 10 kHz	Flat: 100 Hz to 25.5 kHz Pulse: 50 Hz to 12.75 kHz	FX02: 300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz FX03: 10 kHz, 20 kHz, 40 kHz, 80 kHz, 100 kHz	FX02: 300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz FX03: 10 kHz, 20 kHz, 40 kHz, 80 kHz, 100 kHz
Outputs	Single-ended (SE) with Ground Sense	Single-ended (SE) with Ground Sense	Buffered programmable wideband/ filtered SE outputs (3 per channel) w/ Ground Sense	Buffered programmable wideband/ filtered SE outputs (3 per channel) w/ Ground Sense	Buffered programmable wideband/ filtered SE outputs (3 per channel) Optional isolated outputs (Option O)	Buffered programmable wideband/ filtered SE outputs (3 per channel) Optional isolated outputs (Option O)	Single-ended (SE) or differential output (Option T)	Single-ended (SE) or differential output (Option T)	Buffered outputs (2 per channel)