DAQP-STG	Isolated universal input module	Calledon	DAOPSTG	DADP.STG
Strain gauge, bridge sensors:	±0.1 to ±1000 mV/V (@ 5 V _{DC} excitation)	-mullett	0.1 1000 mV/V	0.1 1000 mV/V
Piezoresistive bridge:	±0.5 to ±10000 mV/mA (@ 1 mA excitation)	1	Pewer 🔮 🎯 Statua	Povor 🥚 🎯 Status
Voltage input:	±500 μV to ±10 V	100		
RTD	Resistance Temperature Detector (Pt100 to Pt2000) 9 resistance ranges (8 to 4000 Ω)	and the second second	6	
Resistance:	25 mΩ to 100 kΩ			
Isolation:	350 V _{DC}			
Signal connection:	9-pin SUB-D socket			DEWETRON
			CE	CE
Additional signal input using MSI			0-5	OW
	Constant current powered sensors (accelerometers, microphones); 12 ranges (±100 mV to 10 V); requires MSI-BR-ACC		DAQP-ST	DAQP-STG-LE
THERMOCOUPLE	full range of TC type requires MSI-BR-TH-x			
CHARGE	Charge up to 50000 pC requires MSI-BR-CH-50			
VOLTAGE	up to +200 V			

Module specifications

	DAQP-STG
Gain	0.5 to 10 000
Voltage input ranges Sensitivity @ 5 V _{DC} excitation	±0.5, ±1, ±2.5, ±5, ±10, ±25, ±50, ±100, ±250, ±500 mV, ±1 V, ±2V, ±5 V,±10 V ±0.1, ±0.2, ±0.5, ±1, ±2, ±5, ±10, ±20, ±50, ±100, ±200, ±400, ±1000 mV/V
Resistance	25 mOhm to 100 kOhm
Input impedance	>100 MOhm (power off: 50 kOhm)
Input noise	7 nV * √Hz
Voltage input accuracy Gain drift Offset drift linearity	\pm 0.05 % of reading \pm 0.02 % of range \pm 10 μ V typical 10 ppm/K max. 20 ppm/K typical 0.3 μ V/°C + 10 ppm of range/°C, max 2 μ V/°C + 20 ppm of range/°C typical 0.02 %
Excitation voltage Accuracy Drift Current limit Protection	0, 0.25, 0.5, 1, 2.5, 5,10 and 12 V _{DC} software programmable (16 Bit DAC) ±0.03 % ±1 mV ±10 ppm/K ±50 μV/K 100 mA Continuous short to ground
Excitation current Accuracy Drift Compliance voltage Output impedance	0.1, 0.2, 0.5, 1, 2, 5, 10 and 20 mA software programmable (16 Bit DAC) 0.05% ±2μA 15 ppm/K 12 V >1 MOhm
Supported sensors	 4- or 6-wire full bridge 3- or 5-wire ½ bridge with internal completion (software programmable) 3- or 4-wire ¼ bridge with internal resistor for 120 and 350 Ohm (software programmable)¹⁾ 4-wire full bridge with constant current excitation (piezoresistive bridge sensors) Potentiometric Resistance Resistance Temperature Detection: Pt100, Pt200, Pt500, Pt1000, Pt2000
Bridge resistance	80 Ohm to 10 kOhm @ \leq 5 V _{nc} excitation
Shunt calibration	Two internal shunt resistors 59.88 kOhm and 175 kOhm
Shunt and completion resistor accuracy	0.05 % ±15 ppm/K
Automatic bridge balance	Input range 500 μV to 1 V: ±200 % of Range 2.5 V to 5 V : ±20% of Range
Bandwidth (-3 dB)	300 kHz

Filters (low pass)	10 Hz, 30 Hz, 100 Hz, 300 Hz, 1 kHz, 3 kHz, 10 kHz, 30 kHz, 100 kHz
Filter characteristics standard DAQP-STG	10 Hz to 100 kHz:Butterworth or Bessel 40 dB/dec (2nd order; ±1.5 dB @ f0)300 kHz:Bessel 60 dB/dec (3rd order; 0 to -3 dB @ 300kHz)
Option S6 (DAQP-STG-S6)	10 Hz to 100 kHz: Bessel 80 dB/dec (4th order; ±1.5 dB @ f0) 300 kHz: Bessel 60 dB/dec (3rd order; 0 to -3 dB @ 300kHz)
Typical SNR @ 100 kHz [1 kHz] and 5 V _{pc} excitation	66 dB [84 dB] @ 1 mV/V 82 dB [100 dB] @ 50 mV/V
Typical CMRR @ 0.1 mV/V [1 mV/V] and 5 V _{DC} excitation	160 dB [160 dB] @ DC 115 dB [110 dB] @ 400 Hz 110 dB [105 dB] @ 1 kHz
Isolation	$\pm 350 \text{ V}_{\text{DC}}$ continuous (for input, excitation and TEDS interface)
Common mode voltage	±350 V _{pc} input to housing
Over voltage protection	±50 V _{pc} input (+) to input (-)
Output voltage	±5 V
Output resistance	< 1 Ohm
Output current	Max. 5 mA; short to ground protected for 10 seconds
RS-485 interface	Yes
Supported TEDS chips	DS2406, DS2430A, DS2431, DS2432, DS2433
MSI support	MSI-BR-TH-x, MSI-BR-ACC, MSI-BR-V-200, MSI-BR-CH-50
Power supply voltage	±9 V _{DC} (±1 %)
Power consumption	Typ. 1.7 W @ 350 Ohm, 2.15 W @ 120 Ohm (both full bridge @ 5 V _{DC} excitation) Absolute max.: 3 W (maximum excitation @ maximum current)

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