

High Voltage Iso DAQ

4-channel DC high-voltage divider up to 1 kV measuring range

- Reliable voltage measurement on high-voltage DC systems
- Electrically isolated high-voltage divider
- Short-circuit current limitation via HV Current Limiter
- Measurement data output to CAN
- For electric and hybrid vehicle applications
- Approved applications according to CAT I and CAT II
- Use only together with HV Current Limiter



Device	
Maximum input protection voltage (channel)	±1000 V (indefinitely)
Channel sampling rates	1/ 2/ 5/ 10/ 50/ 100/ 200/ 500/ 1000/ 2000 Hz
Oversampling	2 kHz
Aggregate sample rate	8 kHz
Voltage supply	9 ... 36 VDC
Supply voltage thresholds	Switch-on 9 ±0.3 VDC / Switch-off 6 ±0.3 VDC
Power consumption, typical	7.5 W
Working temperature range	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature range	-30 ... 85 °C (-22 ... 185 °F)
IP-Code	IP 54 (ISO 20653 - 2013)
Relative humidity	5 ... 95 %
Dimensions	W165 mm x H60 mm x D130 mm (6.50 in x 2.36 in x 5.12 in)
Weight	1370 g (3.02 lb)
Configuration interface	CAN high speed
Data transfer rate	Software selectable up to 1 Mbit/s (ISO11898-2)
Input sockets	4 mm safety banana plugs
Galvanic isolation	
Input module power supply	±1000 VDC
Input CAN	±1000 VDC
Input enclosure	±1000 VDC
Input input	±1000 VDC
Test voltage	3536 VAC @ 50 Hz (sine wave)
Application according to CAT I	1000 VDC
Application according to CAT II	600 VAC @ 50 ... 60 Hz (sine wave)
General channel properties	
A/D converter	16 bit / SAR (successive approximation register)

Channel LED	No
Channel impedance	21 M Ω / 100 pF (with HV Current Limiter)
Hardware filter (switchable)	150 Hz, Butterworth (8-pole)
Channel volt	
Measurement range SENS	\pm 1000 V
Accuracy at ambient temperature 25 °C	\pm 0.05 %
Accessories	
System cable	620-561.pdf
System cable	620-502.pdf
System cable	620-560.pdf
System cable	620-567.pdf
System cable	620-044.pdf
System cable	M-CAN-ABS.pdf
System cable	M-DEF-200.pdf