



DEWE2-A4 / DEWE2-M4

- 1 Display
- 2 Slots for TRION™ modules
- 3 Power supply sensors via TRION™ modules
- 4 Sync input/output
- 5 LAN, USB, DVI interface



DEWE2-A4 / DEWE2-M4																												
Dynamic analog input channels	4 slots for TRION™ series modules for up to 8 power channels																											
	<table border="1"> <thead> <tr> <th></th> <th>TRION-1820-POWER-4</th> <th>TRION-2402-V-8</th> </tr> </thead> <tbody> <tr> <td>Voltage input</td> <td>1000 V ($\pm 2000 V_{PEAK}$)</td> <td>up to 500 V ($\pm 1000 V_{PEAK}$)</td> </tr> <tr> <td>Direct current input</td> <td>up to 20 A ($\pm 40 A_{PEAK}$)</td> <td>up to 7 A ($\pm 15 A_{PEAK}$)</td> </tr> <tr> <td>Transducer, clamp input</td> <td>5 V ($\pm 10 V_{PEAK}$)</td> <td>from ± 300 mV</td> </tr> <tr> <td>Bandwidth</td> <td>> 5 MHz</td> <td>77 kHz</td> </tr> <tr> <td>Typical accuracy</td> <td>45 to 1 kHz ± 0.02 % of reading ± 0.01 of range</td> <td>DC to 1 kHz ± 0.02 % of reading ± 0.02 of range ± 3 mV</td> </tr> <tr> <td>Typical power accuracy</td> <td colspan="2">45 to 1 kHz ± 0.02 % of reading ± 0.02 % of range (TRION-1820-POWER-4 with direct current input)</td> </tr> <tr> <td>Dynamic channel expansion</td> <td colspan="2">Ethernet, TRIONet</td> </tr> <tr> <td>Quasi-static channel expansion</td> <td colspan="2">EPAD2 interface connector, CPAD2/3 via TRION-CAN</td> </tr> </tbody> </table>		TRION-1820-POWER-4	TRION-2402-V-8	Voltage input	1000 V ($\pm 2000 V_{PEAK}$)	up to 500 V ($\pm 1000 V_{PEAK}$)	Direct current input	up to 20 A ($\pm 40 A_{PEAK}$)	up to 7 A ($\pm 15 A_{PEAK}$)	Transducer, clamp input	5 V ($\pm 10 V_{PEAK}$)	from ± 300 mV	Bandwidth	> 5 MHz	77 kHz	Typical accuracy	45 to 1 kHz ± 0.02 % of reading ± 0.01 of range	DC to 1 kHz ± 0.02 % of reading ± 0.02 of range ± 3 mV	Typical power accuracy	45 to 1 kHz ± 0.02 % of reading ± 0.02 % of range (TRION-1820-POWER-4 with direct current input)		Dynamic channel expansion	Ethernet, TRIONet		Quasi-static channel expansion	EPAD2 interface connector, CPAD2/3 via TRION-CAN	
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Dynamic channel expansion	Ethernet, TRIONet																											
Quasi-static channel expansion	EPAD2 interface connector, CPAD2/3 via TRION-CAN																											
A/D conversion																												
Sampling method	Simultaneous																											
Sampling rate	2 MS/s per channel																											
Resolution	18 bit																											
Digital I/O and counters																												
Digital I/O, TTL level	8 via TRION-BASE																											
Counters or digital inputs, TTL level	2 advanced counter via TRION-BASE																											
Synchronization	IRIG code B, DC I/O via TRION-BASE																											
Options	CAN, CAN-OUT, SCPI, XCP, Video, etc.																											
Optional sensors	Zero flux transducer, hall/flux compensated clamps, flexcoils, shunts																											
Sensor supply	External power supply for DEWETRON sensors and probes, 9 V / ± 15 V																											
Main system	DEWE2-A4																											
Hard disk	256 GB SSD (1 TB SSD)																											
Data throughput	Typ. 90 MB/s																											
Power supply	11 to 32 V _{DC} (external AC power supply included), optional internal buffer battery and external UPS																											
Display	13" TFT wide-screen (optional touch display)																											
Processor	Intel® Core™ i7																											
RAM	8 to 16 GB																											
Ethernet	2x 10/100/1000 BaseT																											
USB	4																											
LAN/WLAN	1/with external antenna																											
Operating system	Microsoft® WINDOWS® 10																											
Dimensions (W x H x D)	317 x 252 x 128 mm (12.5 x 9.9 x 5 in.)																											
Weight w/o TRION™ modules	Typ. 5.9 kg (13 lb.)																											
Environmental specifications																												
Operating temperature	0 to +50 °C, down to -20 °C with prewarmed unit																											
Storage temperature	-20 to +70 °C																											
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity																											
Max. altitude	4000 m (13123 ft)																											
Sine vibration (EN 60068-2-6)	Acceleration 20 m/s ² , freq. 10 Hz - 150 Hz, sweep 1 oct/min, 20 cycles																											
Shock (EN 60028-2-27)	Acceleration 15 g, duration 11ms, pulse form half sine, 3 pumps/direction, 6 directions																											
Random vibration (EN 60721-3-2)	Class 2M3 (spectral acceleration density 3 m ² /s ³ , frequency range 10 Hz-200 Hz, duration 30 min/direction)																											
Applications																												
Test bench	yes																											
Hydro electrical power plants	yes																											
4-phase systems solar inverters	yes																											
Motor efficiency	yes																											
Power converter	yes																											
E-Mobility and charging infrastructure	yes																											
Electrical vehicle for transportation	yes																											