



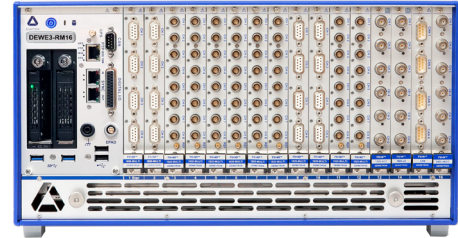
DEWE3-RMx/PA8-RM



DEWETRON

Key facts

- ▶ Rack-mount or benchtop data acquisition mainframe
- ▶ 4/8/12/16 slots for TRION3/TRION acquisition series modules
- ▶ Silent cooling, easy to maintain fan cartridge
- ▶ Optional 10 GBit Dual LAN high-speed channel expansion
- ▶ Gapless storage of raw data up to 1 GB/s
- ▶ DEWE3-PA8-RM with redundant power supply for sensor supply



System specifications

	DEWE3-RM4	DEWE3-RM8	DEWE3-RM12	DEWE3-RM16	DEWE3-PA8-RM	
Slots for TRION(3) modules	4	8	12	16	8	
Features ¹⁾ (optional)	<ul style="list-style-type: none"> – 1 programmable frequency output (10 to 1,000,000 Hz) – 2 advanced counter input, 2 basic counter – 8 digital inputs, 4 digital outputs 					
Input specification	Supports all TRION/TRION3 (high-speed) series interface modules except 3 rd party modules ²⁾ . Optimized to operate with high-speed TRION3 series modules.					
High-speed channel expansion	Connect multiple DEWE3-RMx series instruments with up to 10 GBit via OXYGEN-NET (optional); add TRIONet or any other instrument with up to 1 GBit via OXYGEN-NET					
Low-speed channel expansion	XR series modules via EPAD connector (RS-485 interface) or via TRION-CAN interface.					
Main system						
System bandwidth	max. 1000 MB/s (depending on system configuration) ³⁾					
Data storage	1 TB SSD-PCIe dedicated for data storage (upgrade to 2 TB SSD-PCIe available) 512 GB SSD for operating system and application software					
Power supply input	Rated input voltage: 100 to 240 V _{AC} (max. 90 to 264 V _{AC}), 600 W AC power supply					
Power consumption incl. modules ⁴⁾	max. 260 W	max. 360 W	max. 460 W	max. 560 W	max. 560 W	
Noise emissions ⁵⁾	<ul style="list-style-type: none"> – System idle – CPU max. heat – Max. fan 					
Cooling capacity	25 W per module slot					
MTBF ⁶⁾	without fans	50,700 h	38,700 h	32,400 h	27,500 h	35,600 h
	with fans (5-year maintenance)	35,400 h	29,000 h	25,400 h	22,300 h	26,400 h
Dimensions (W x D x H)	Without feet and handles: 442 x 435 x 222 mm (5U) (17.4 x 17.1 x 8.7 in.)					
Weight w/o TRION modules	Typ. 15.8 kg (34.8 lb.)					

Tab. 1: System specifications DEWE3-RMx / DEWE3-PA8-RM

	DEWE3-RM4	DEWE3-RM8	DEWE3-RM12	DEWE3-RM16	DEWE3-PA8-RM
Environmental specifications					
Operating temperature	0 to +50 °C, down to -20 °C with pre-warmed unit				
Storage temperature	-20 to +70 °C				
Humidity	10 to 80 % non cond., 5 to 95 % rel. humidity				
Max. altitude	2000 m (6561 ft)				
Sine vibration test; EN 60068-2-6					
Shape	Sine				
Frequency range	10 Hz - 150 Hz				
Acceleration	20 m/s ²				
Sweep rate	Sweep 1 oct/min				
Duration test in 3 directions	20 cycles				
Shocktests; EN 60068-2-27					
Pulse form	Half-sine				
Acceleration amplitude	15 g				
Duration	11 ms				
Direction	3 bumps each direction, 6 directions in total				
Random vibration test; EN 60721-3-2; Class 2M3					
Frequency range	10 Hz-200 Hz				
Spectral acceleration density	3 m ² /s ³				
Duration	30 min/direction				

Tab. 1: System specifications DEWE3-RMx / DEWE3-PA8-RM

- 1) The interfaces are only present on the device if at least one of the optional features has been purchased.
- 2) TRION3-1820-MULTI-AOUT and TRION3-AOUT depending on operating mode.
- 3) For further information refer to chapter 'Block diagram'.
- 4) Depending on installed TRION/TRION3 series modules.
- 5) Tested with DEWE3-RM16 and 4 TRION(3)-18xx-MULTI modules in first segment. 1 m distance to system (front); remaining slots covered with cover panels.
- 6) The MTBF (mean time between failure) was calculated with installed chassis controller.