

# MINITAUrs

## COMPACT DAQ SYSTEM

- ▶ Integrated high performance computer
- ▶ 8 universal sensor inputs  
(Strain, Voltage, Current, DSI® adapters)
- ▶ Internal Quarter- and Half-bridge completion
- ▶ Programmable sensor excitation
- ▶ 8 Supercounters®
- ▶ Removable 250 GB/1 TB SSD
- ▶ Expandable with SIRIUS® or EtherCAT® input
- ▶ Built-in GPS (option)



DEWESoft® introduces the MINITAUrs, fully packed with the latest technology. Based on the SIRIUS® DUALCOREADC® technology with amazing dynamic, it offers eight universal analogue input channels and at the same time eight Supercounters® plus 1 CAN port for automotive applications.

In addition to the standard interfaces such as 2x GLAN and WLAN, DVI-D, the integrated computer provides 4 x USB 3.0 and 2 x USB 2.0 ports and removable SSD for fast data transfer.

Built of a solid aluminium block, rugged and compact, with 266 x 139 mm footprint and 109 mm height only, it is the dedicated instrument for mobile usage. MINITAUrs is expandable with battery packs BPI2 and BPI4, and compatible with all other DEWESoft® frontends.

<b>Analogue Inputs</b>	8 ch voltage, full/half/quarter bridge strain, current (with ext. Shunt), potentiometer
<b>ADC type</b>	24 bit delta-sigma DUALCOREADC® with anti-aliasing filter
<b>Sampling rate</b>	Simultaneous 200 kS/sec
<b>DUALCOREADC® Ranges (Low Range)</b>	±10V (500 mV), ±1V (50 mV), ±100mV (5 mV), ±10mV (0.5 mV)
<b>Bridge ranges @ 10 Vexc (Low Range)</b>	1000(50)mV/V, 100(5)mV/V, 10(0.5)mV/V, 1(0.05)mV/V
<b>Dynamic Range@10kS (DUALCOREADC®)</b>	137 dB (152 dB)
<b>Input coupling</b>	DC
<b>Input impedance</b>	10 MΩ
<b>Bridge modes</b>	Full/Half/Quarter Br 120/350 Ω 3-wire; internal bridge completion
<b>Internal shunt resistor</b>	100 kΩ, bipolar to Exc+ or Exc- (others on request)
<b>TEDS</b>	supported DSI® adapters only fit on 9pin DSUB
<b>Excitation Voltage</b>	0 to 12 VDC software programmable (16 Bit DAC), max 44 mA
<b>Overvoltage protection</b>	In+ to In-: 50V continuous; 200 V peak (10msec)
<b>Typical power consumption (max.)</b>	11 W (20 W)
<b>Digital Inputs</b>	8 counter/24 digital inputs, fully synchronized with analogue data
<b>Input level compatibility</b>	CMOS, LVTTTL
<b>Input protection</b>	±25 V continuous
<b>Digital output</b>	8 ch open collector, max. 100mA/30 V

### Integrated high performance computer

<b>CPU</b>	Intel Core i3, 1.7GHz, 3 MB cache
<b>RAM</b>	4GB (up to 16 GB upon request)
<b>Storage</b>	250 GB removable SSD option: 1 TB removable SSD option: 250 GB int. FLASH (for OS)
<b>Power supply</b>	9-36 VDC
<b>Power out</b>	same output voltage level as power in
<b>GPS</b>	10 Hz option, 100 Hz option, 100 Hz option + RTK option
<b>Interfaces</b>	2x USB 2.0 4x USB 3.0 DVI-D interface for external display 2x Ethernet LAN + WLAN GPS antenna GPS display/RTK modem (DB9) EtherCAT® connector 2x Sync connector
<b>Operating temperature</b>	0 to 50°C
<b>Dimensions</b>	266 x 139 x 109 mm

