# DEWE-2600

- *High performance portable all-in-one instrument*
- *Flexible mixture of isolated and differential analog inputs*
- *Function panels for digital I/O, counters, sensor supply ...*
- *Up to 7 PCI slots for A/D and other cards (1394, ARINC, 1553...)*
- *Fully battery powered (optional)*

***Choose from three models***
*Add your choice of signal conditioning, A/D board(s) and software to complete these systems*

| DEWE-2600 series | | | |
|---|---|---|---|
| **Input specifications** | **DEWE-2600** | **DEWE-2601** | **DEWE-2602** |
| Slots for DAQ or PAD modules | 16 | - | 16 |
| MDAQ input channels | - | Up to 80 (BNC connectors)<br>Up to 64 (DSUB connectors) | Up to 32 |
| Available panel space | 2 x 2U | 1 x 4U and 1x 4.5 U | 2 x 2U |
| **Main system** [1] | | | |
| Total PCI-slots | 2 full / 2 half length | 4 full / 3 half length | 2 full / 2 half length |
| Hard disk | 1 TB removable HDD | | |
| Data throughput | Typ. 80 MB/s [2] | | |
| Power supply | 95 to 260 $V_{AC}$ | | |
| Display | 15" TFT display, 1280 x 800 pixel | | |
| Processor | Intel® Core™ i5/i7 | | |
| RAM | 3 GB | | |
| Ethernet | 2 x 1 Gbit LAN | | |
| USB interfaces | 4 | | |
| RS-232 interface | 1 | | |
| Storage drive | Internal DVD +/-RW burner | | |
| Operating system | Microsoft® WINDOWS® 7 | | |
| Dimensions (W x D x H) | 417 x 246 x 303 mm (16.4 x 9.7 x 11.9 in.) | | |
| Weight | Typ. 14 kg (31 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 | | |
| Vibration[3] | EN 60068-2-6, EN 60721-3-2 class 2M2 | | |
| Shock[3] | EN 60068-2-27 | | |

[1] Please find current specifications in the latest price list
[2] Depends on the system configuration. Examples:
- DEWE-2601 with 6x DEWE-ORION-1616-500 could stream 80 MB/s to the harddisk
- DEWE-2600 with 4 x DEWE-ORION-1624-200 + 2x DEWE-CAM01 could store 70 MB/s

[3] Tested with Solid State Disk

## *Additional interfaces and sensors*

*Measurements are not limited to just classic analog and digital signals. Please find further detailed information to expand your system in the chapter "Components".*

### *Needed to complete the system*

*DEWE-ORION "A/D Boards" offer simultaneous sampled analog inputs, synchronous digital I/Os, high-performance counters and high-speed CAN interfaces. DAQP- or MDAQ signal amplifiers and software are needed as well.*

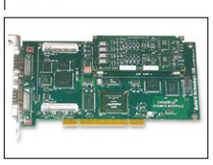
### *Options to expand the system*

*Add further "Interface Cards" like ARINC-429, 1553, PCM telemetry, FireWire and analog output or special "Sensors" like synchronized Video, industrial encoders (RIE-360) or GPS.*


*A/D card*


*DAQP/MDAQ*


*DEWESoft*

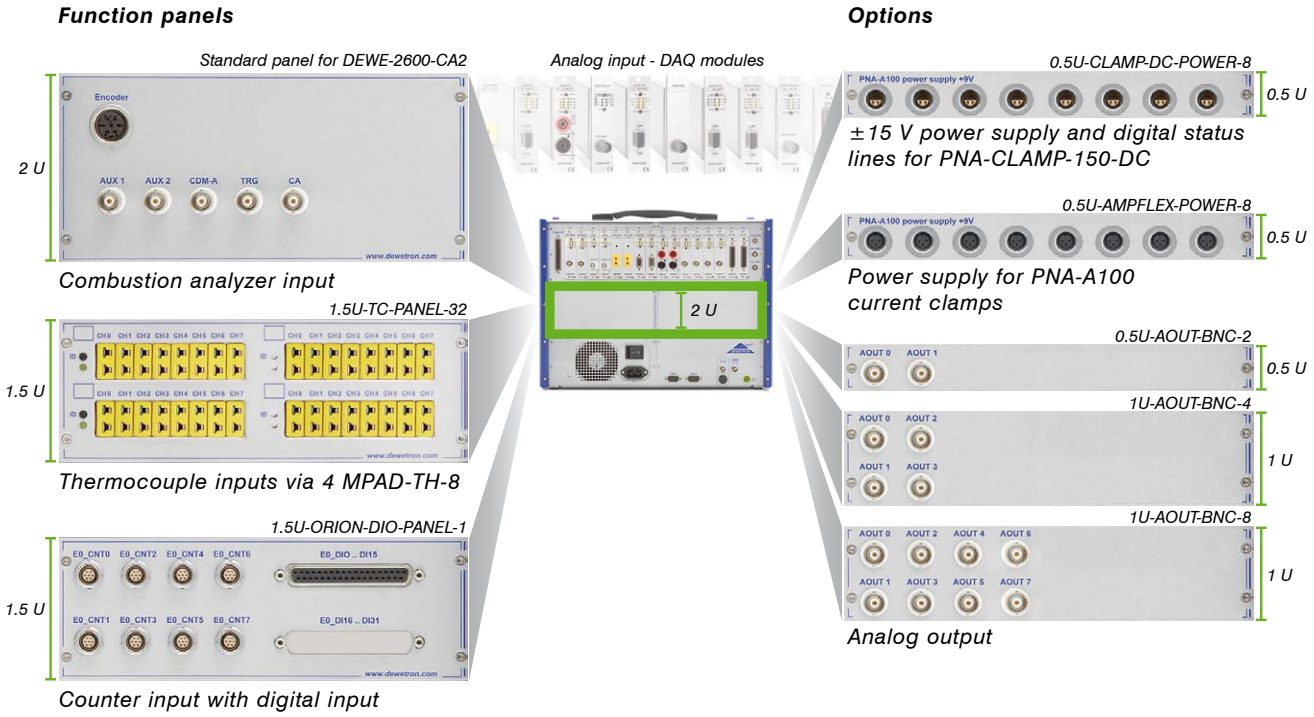

*ARINC*


*VIDEO*


*VGPS*

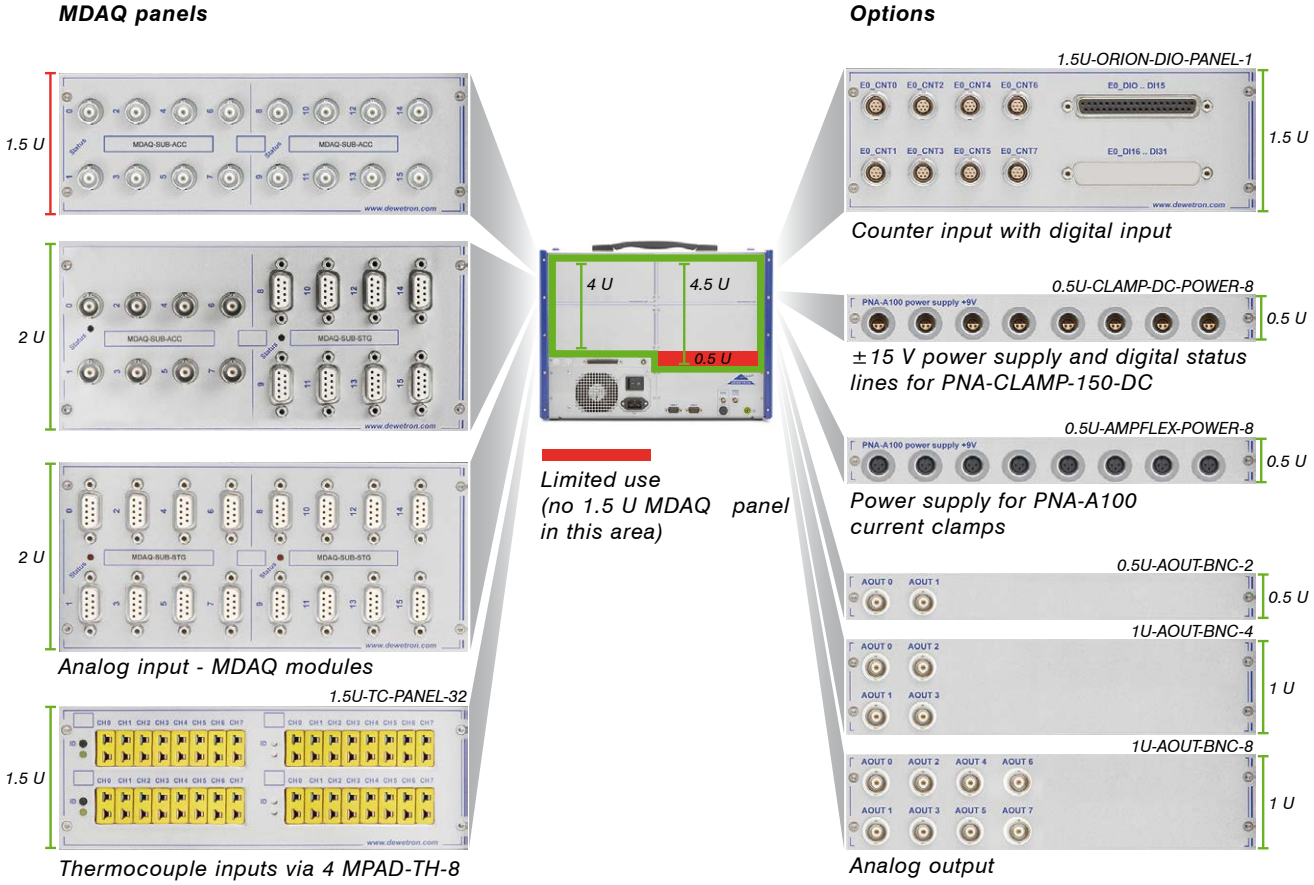
# Configuration Guide DEWE-2600

*Most flexible model, prepared for DAQP **isolated** analog input amplifier modules. DAQP conditioners offer highest bandwidth, great accuracy, different input ranges and integrated filters. Besides the single channel modularity – a module easily can be changed by the user at any time – the main advantage of these modules is the high galvanic isolation which ensures safe measurements, high quality results and make them almost indestructible. See chapter "Signal Conditioning" for details.*



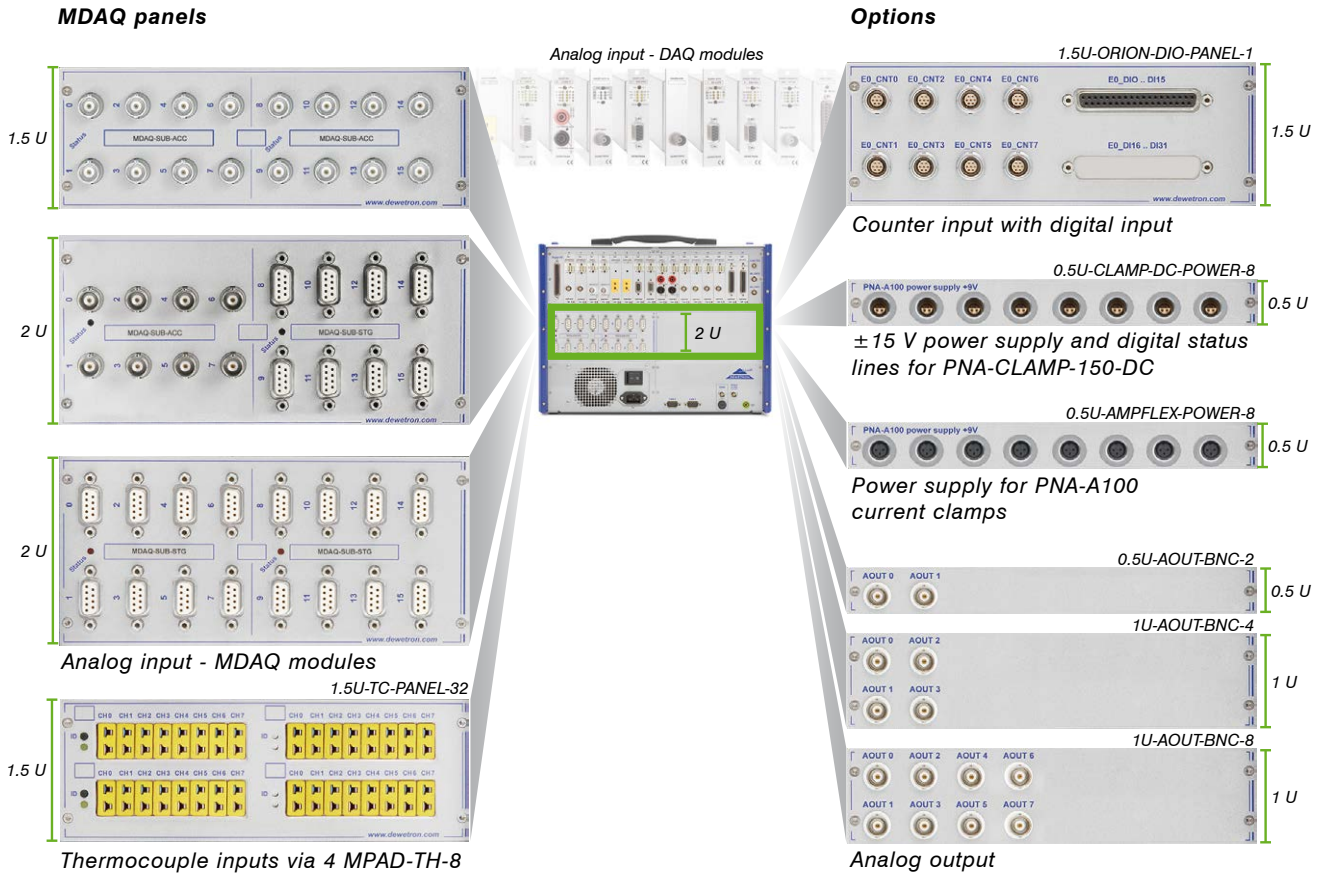

# Configuration Guide DEWE-2601

*High channel count version, for direct sensor input via differential MDAQ analog input amplifiers. MDAQ modules are available in cost efficient and space saving 8-channel blocks. See chapter "Signal Conditioning" for details.*



# Configuration Guide DEWE-2602

*This version combines slots for **isolated** DAQP modules and positions for differential MDAQ blocks. Thus it enables you configuring a cost optimized system that needs isolated inputs, e.g. high voltage signals, and a number of differential inputs, e.g. accelerometers.*




# Typical Configurations

### DEWE-2600

- *16 isolated DAQP modules*
- *4 MPAD modules (16 tc "T" and 16 tc "J" inputs)*
- *8 counters + 16 extra digital input*

### DEWE-2602

- *16 isolated DAQP modules*
- *16 differential analog MDAQ inputs*
- *8 counters + 16 extra digital inputs*

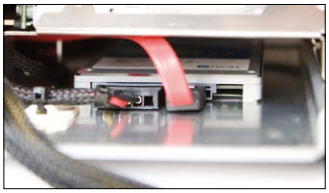
### DEWE-2601

- *80 differential analog MDAQ inputs*

| System options and upgrades for DEWE-2600 series | |
|---|---|
| **Options** | **Description** |
| DISP-15-TOUCH | Touchscreen for 15“ display |
| 2600-FIREWIRE | PCI Express FireWire® interface for the DEWE-2600 |
| 2600-PS-BAT | Battery power supply with UPS function,<br>18 .. 24 $V_{DC}$ non-isolated input, incl. external AC power supply DEWE-POW-24-350,<br>3 slots for hot-swappable batteries, 3 batteries for appr. 3 hours operation included,<br>for DC operation always add DEWE-DCDC-24-300-ISO |
| DEWE-DCDC-24-300-ISO | External DC/DC converter with isolation,<br>9 to 36 $V_{DC}$ input range, Lemo EGJ.3B.302, incl. 2 m cable to banana jacks,<br>24 $V_{DC}$ output, 300 W, Lemo EGG.2B.302 socket |
| BAT-95-WH | Lithium-Ion battery, 14.4 V, 95Wh, max. 8A |
| BAT-CHARGER-1 | Desktop battery charger for 1 battery, incl. external AC adaptor |
| BAT-CHARGER-4 | Desktop battery charger for 4 batteries, incl. external AC adaptor |
| PS-BAT-REMOTE-ON | Special add-on for the battery power supply, one extra connection with a wake-up signal is needed to the power supply input of the unit,<br>allows to automatically turn on the instrument when the ignition of the car is turned on, also turns off the instrument when the car is turned off |
| **Upgrades** | **Description** |
| HDD-1000-SSD-128 | Upgrade to 128 GB flash disk (replaces 1 TB hard disk),<br>max. data throughput 40 MB/s |
| HDD-REM-1000 | Spare removable hard disk, 1 TB |
| 2600-SYSTEM-SSD-64 | Additional internal SSD 64 GB for Windows and DEWESoft, the removable hard disk remains |

### *2600-PS-BAT*
### *Optional battery power supply*

*This option turns your DEWE-2600 into a fully battery powered instrument. The hot-swappable batteries guarantee continuous operation without an external power source. The instrument provides 3 slots for BAT-95WH batteries and can be operated for up to ~2 hours with 3 batteries installed. Since this time depends a lot on the system configuration a DEWESoft plugin shows the battery status directly in the software. Also alarm conditions can be set and the battery parameters can be displayed as additional measurement channels. Operating temperature is limited to 0 .. 45° C when batteries are charged.*



***2600-SYSTEM-SSD-64***
*Additional internal Solid State Disk*

***HDD-REM-600***
*Spare removable harddisk, 600 GB for classified work*

***2600-CSMK1***
*Car seat mounting kit*


***DEWE-DCDC-24-300-ISO***
*Isolated DC power supply, needed to operate units with 2600-PS-BAT option from DC*

## *Channel Expansion*

*Signal conditioning for slow signals is added by connecting EPAD2 series modules to the systems EPAD interface.*

*For expanding the number of dynamic channels there are three choices:*

***Analog cable**: Additional A/D boards are installed into the basic instrument and external signal conditioning, e.g. DAQ modules in a DEWE-30 chassis, is connected by means of an analog signal cable.*

***PCI expansion**: A PCI-HOST card is installed into the basic instrument and external signal conditioning, e.g. DAQ modules in a DEWE-50 chassis, is connected by means of a PCI cable.*

***DEWE-NET**: Several instruments are connected via Ethernet. Each unit requires an ORION-SYNC option. For short distances a sync cable is used if the units are far from each other a sync interface like DEWE-CLOCK is used.*