

Automotive
 Energy & Power Analysis
 Aerospace & Defense
 Transportation
 General Test & Measurement



Standard Models

DEWETRON standard models are predefined configurations which meet the requirements of many applications. Standard Models offer just the level of flexibility that is needed for a defined application. For power measurement, a selected complete system can be ordered as a single item.

For more generic tasks, like data recording, the input amplifier modules can be selected according to the sensors used. There are models prepared with isolated DAQP modules for most demanding tasks and performance and there are models prepared with cost-effective differential MDAQ modules for multi-channel measurements.

Award winning DEWESoft software and related options are always included with any standard model and its options.

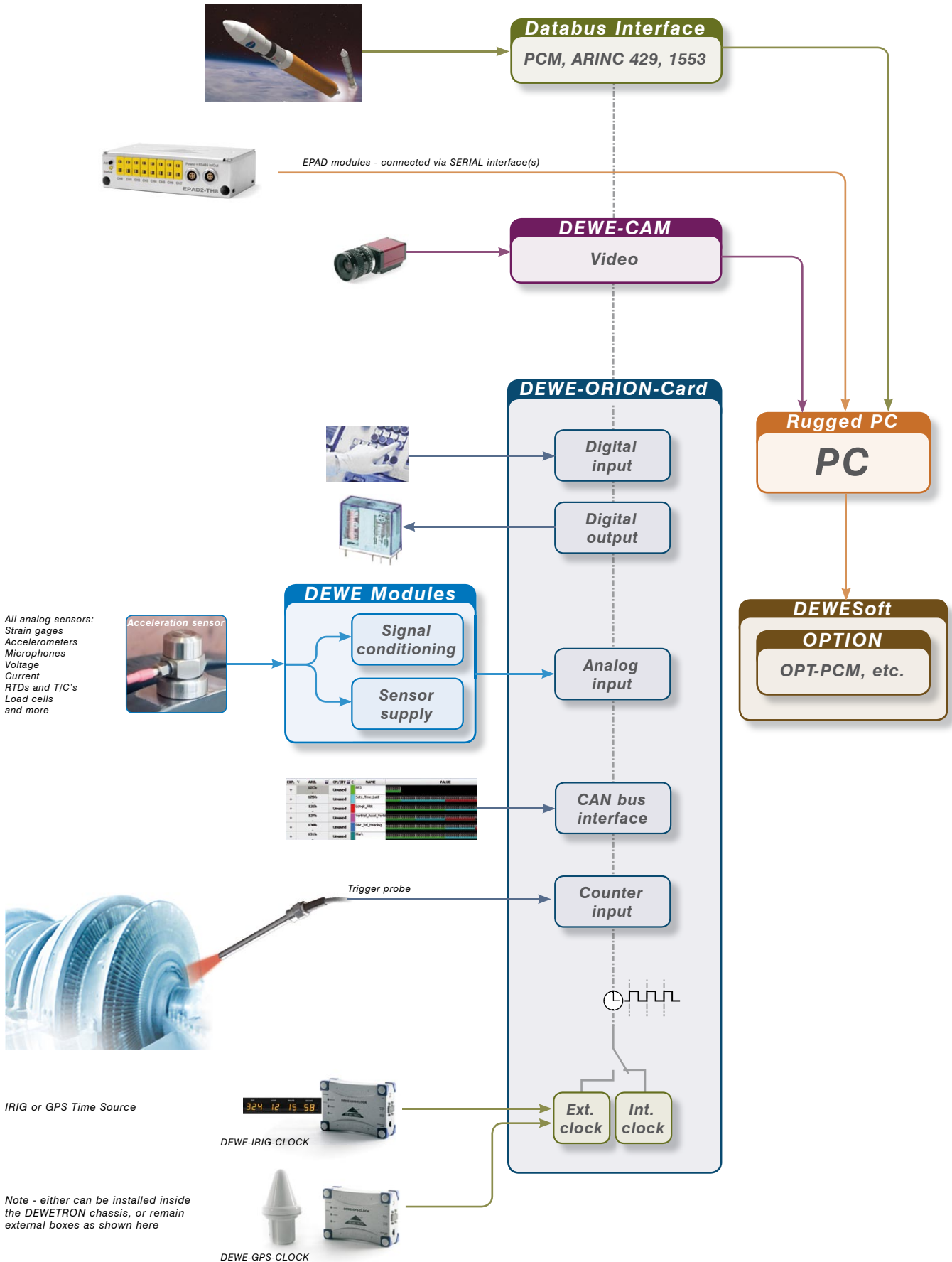
The computer part of each unit is based on qualified common off-the-shelf hardware. This guarantees cost-effective upgradeability to future generations of processors, providing a secure investment.

DEWETRON Standard Models are available for the following applications

- DEWE-xxx-REC** ■ Recording
- DEWE-xxx-DSA** ■ Dynamic Signal Analyzer
- DEWE-xxx-CA** ■ Combustion Analyzer
- DEWE-xxx-CAPS** ■ Combined Active and Passive Safety Testing
- DEWE-xxx-RLD** ■ Road Load Data Testing
- DEWE-xxx-RAH** ■ Ride And Handling Evaluation
- DEWE-xxx-PBN** ■ Pass By Noise Analysis
- DEWE-xxx-TR** ■ Transient Recording
- DEWE-xxx-FGEN** ■ Function Generator
- DEWE-xxx-PM** ■ Power Measurement
- DEWE-xxx-PFR** ■ Power Fault Recording
- DEWE-xxx-PNA** ■ Power Network Analyzer
- DEWE-xxx-E-Mobil** ■ E-Mobility



System Architecture at a Glance ... it's all about DEWE-ORION and System Clock





Recording Instruments

DEWE-xxx-REC ... Whatever is required

The most efficient way to record data is with a PC based Recording Instrument from DEWETRON. Several models to choose from, cover a lot of applications whether a portable 8 channel recorder is needed or a system holding 48 analog inputs. This product range is powerful and perfect to replace old strip chart recorders.

You can record as easily as pressing the STORE button, or as elaborately as having separate – even multiple – triggers on each input channel.

Once data are stored, press ANALYZE and you can replay it to the screen as easily as replaying a movie, with PLAY controls. Cursors can be used to zoom in and inspect specific areas of interest. In a matter of seconds nice looking reports can be printed. If you are using 3rd party analysis software you are also well served, export of the whole recording or just the interesting part to many different file formats is supported. So you can e.g. keep your Excel® spreadsheets.

DEWETRON Recording Instruments with DAQP isolation amplifiers are very flexible, each single-channel input module can easily be swapped depending on your current task. Furthermore the galvanic isolation ensures safe, reliable and high precision measurements in any application, no need to worry about ground-loops, common-mode voltage or interference of the device under test.

Key Features

- Synchronous recording of analog, digital, counter, CAN bus and video data
- High speed acquisition, up to 80 MB/s gap-free streaming to disk
- Traceable system specifications
- Rugged construction for use in rough environments
- Easy to use DEWESoft software for data acquisition and analysis
- Fully battery powered (some models)
- Safe investment, easy future upgrade

Functional Overview of a typical Recording Instrument, DEWE-2600-REC-16

Digital I/O socket

8 digital I/Os: for discrete inputs, alarm outputs etc.
2 counters or 8 more digital inputs: for pulse counting, encoders etc.

Optional MPAD-TH8-x modules

Up to 32 quasi-static inputs for thermocouples

Power supply

The DEWE-2600-REC-16 is a fully battery powered instrument.
Three hot-swappable batteries guarantee up to 3 hours operation without external power. Hot-swappable batteries mean that the 2600 can be run indefinitely without any external power

DAQP modules

Up to 16 high performance isolated signal conditioning modules for any analog sensor. Easily changeable by the user.

2 counter sockets

For convenient sensor connection the 2 counters are available on these sockets, too. These also provide +5V and +12V sensor supply

Option UP-CNT8-x

Adds 8 synchronous counter / encoder or 32 digital inputs

Optional CAN interfaces

Two high speed CAN interfaces to acquire data from vehicle CAN – or vehicle OBDII interface – or from any sensor outputting CAN data



Backside view of a typical DEWE-2600-REC-16

Optional synchronized camera

The DEWE-CAM-01 adds synchronized video picture acquisition
It connects to a Firewire interface for data transfer and to the CAM-TRG socket for synchronization

Connectivity of peripherals, storage devices and communication

2 Gbit LAN, 4 USB, 1 RS-232

DVD writer

Convenient to load new software and to store data

Keyboard

Rugged aluminium tray with convenient keyboard and touchpad
Folds up to protect the display; USB can stay connected

Display

15" bright display with wide viewing angle

Rugged construction

All instruments are shock and vibration tested according EN 60068.

Removable hard disk

Removable fast S-ATA system and data capture drive – perfect for securing classified data



Front view of a typical DEWE-2600-REC-16