

The Compact 15 for the FWD & HWD

The new Compact 15 (CP15) embedded PC control and signal processing unit has been designed and developed using the latest technology and replaces the joint functionality of the Dynatest 9000 System Processor, the Trailer PCB and the Hydraulic Connection Box

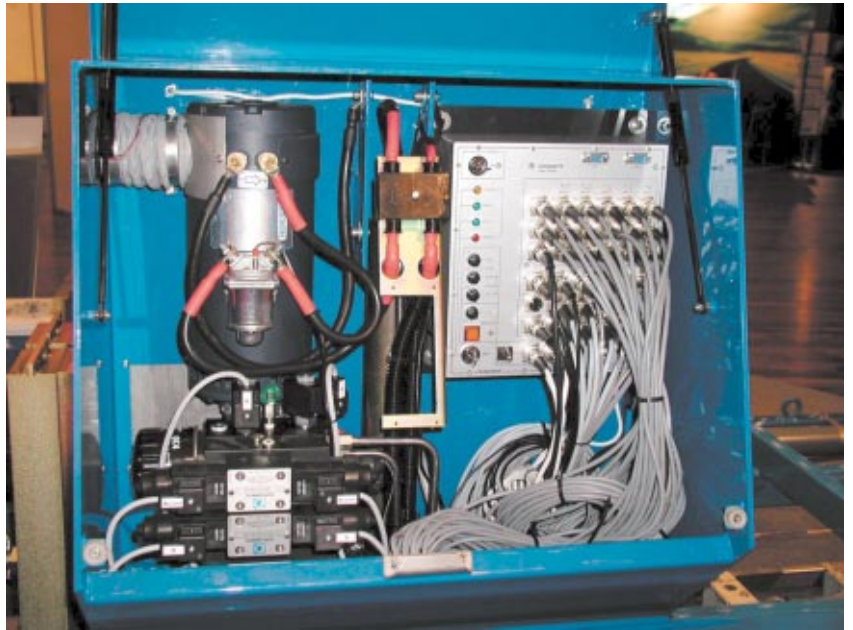
The CP15 allows up to 15 deflection sensors (geophones) to be used simultaneously.

The Multi-Signal Cable and the DMI cable have been replaced by a single network cable providing much faster transfers between the CP15 and the computer in the tow vehicle.

Time histories can now be collected on all 15 deflection channels simultaneously in time windows ranging from 40 to 200 msec. The system is capable of storing histories for up to 400 msec when the data is required for special research needs and for undertaking dynamic analysis. A new sampling circuit has improved resolution in time from typical 0.1 msec to 0.05 msec independent of the number of channels in use. The high speed network connection allows for rapid transfer of the increased volume of time history data.

Two auxiliary power outputs have been added to allow the operator to activate optional devices from within the vehicle cab. These could be any device activated by a voltage switch, for example a paint sprayer. There is a separate power output to attach a beacon or hazard warning system.

The interior of the CP15 has a thermostatically controlled cooling and heating device to help maintain operational temperature within the CP15, critical when operating in extreme climates. The feature will also extend the life of the electronic components.



Maintenance and Safety

All hydraulic valves and status sensors now plug directly into the CP15, making maintenance and replacement easier.

COM 1 & COM 2 ports allow for the CP15 to be interrogated during setup and can be used for diagnostic purposes.

On the CP15 panel LED's display voltages out-of-range and activation status of all sensors and power outputs.

Should there be a problem with the embedded PC system, an Emergency Override switch will bypass the electronics to enable the plate to be raised to transport position to allow maintenance to occur in a safe area away from the traffic.

New safety features have been enhanced to improve the safety of the operator while working on the trailer undertaking manual operation and maintenance.

Upgrades

The CP15 can be fitted into the existing FWD and HWD trailer control box, allowing all owners to upgrade from the exiting trailer connection electronics and 9000 processor to the CP15.

FWDwin requires a computer with Windows[®] XP Professional operating system and a built in network adapter.