

CTL25 Combined Time - Pressure/ Oxidising Liquids Test Apparatus

Examines the ability of a substance to propagate a deflagration, as well as the oxidising potential of a liquid to increase the burning rate of a combustible substance when the two are mixed. For **UN and EMTAP classification** of explosives.

The Time / Pressure apparatus is designed to examine the effect of an ignition on substances under confinement and in particular, the possibility that ignition might lead to a deflagration with explosive violence at pressures which can be attained with substances in normal commercial packages. The testing is conducted according to the UN Transport of Dangerous Goods Recommendations Manual of Tests and Criteria Test 1 (c) (i), Test 2 (c) (i) or Test C.1 and also to the EMTAP Manual of Tests Volume 1. Testing of Oxidising properties is also possible using the newly supplied integral control unit and software package to UN/EC test standards.

Benefits:

- > Simple to use
- > Automated ignition / monitoring set-up
- > Test software / hardware: graphical display showing time vs pressure trace
- > High speed logging of raw data



Time / Pressure Test Apparatus



Functional Specification and Deliverables

- > Time Pressure / Oxidising Liquids Control Unit with remote handset push button initiation of ignition following commencement of logging of data. Complete with changeover switch to enable either time pressure testing or oxidising liquids testing to be undertaken
- > Time Pressure Vessel and Stand
- > Pressure Transducer (0-25 barg / 0-362.5 psig)
- > Ignitor output cable
- > USB Data communication cables
- > Torque Spanner for vessel end cap maintenance
- > Vessel and end cap maintenance stands
- > 1 x set aluminium burst discs (100 pcs)
- > 1 x set lead washers (200 pcs)
- > Time Pressure / Oxidising Liquids documentation
- > Time Pressure / Oxidising Liquids test program

Optional Extras

- > Spare burst discs
- > Spare lead washers
- > Spare pressure transducer
- > PC with LCD monitor (recommended)
- > Oxidising liquids Nickel Chromium wire for hot coil ignition source*

*Note: Due to transport restrictions, primed cambric or fuse heads are not supplied as standard. These are used in conjunction with each other to form the ignition source for time pressure testing. These components must therefore be sourced locally by the customer.

