

## Test Stand Assy APU FCU and Fuel Nozzles

### >PTRV2<



The test stand is developed to test the TORNADO and EUROFIGHTER APUs, fuel pumps, regulators and injection nozzles.

It is possible to adapt the test stand for various fuel components of other aircraft.

- > The equipment tests specific performance data e.g. pressure, flow, temperature, rotational speed, etc.
- > The test stand is capable of cooling and heating the test media (up to 165°C).
- > The test stand is explosion proofed to ATEX Directive 94/9/EC enabling it to be used in a zone 1 environment.
- > To comply with the ATEX directive, a fuel vapour warning system and forced ventilation is fitted.



## TECHNICAL DATA

|   |  |  |  |
|---|--|--|--|
| <b>&gt; Hydraulic and pneumatic parameters:</b> |  | Current:<br>(1-off) 0 to 200mA<br>(1-off) 0 to 5A<br>±0.5% of full scale |  |
| Fuel circuit:                                   | Test medium: JP8<br>Pressure: max. 60bar (870psi)<br>Flow: 0 to 2500kg/h<br>(0 to 5512lb/h)  | <b>&gt; Dimensions and weight:</b>                                       |  |
| Main reservoir:                                 | Capacity: 55l (14.5USgal)<br>Pressure: 2.8bar (50.7psi)  | Test stand:  | Length: 3350mm (11.0ft)<br>Width: 2100mm (6.9ft)<br>(excl. control console)<br>Height: 2650mm (8.7ft)<br>Weight: 3020kg (6658lb) |
| Lube oil circuit:                               | Medium: MIL-L-23699<br>Reservoir: 8l (2.1USgal)  | Control console:   | Length: 700mm (2.3ft)<br>Width: 820mm (2.7ft)<br>Height: 2750mm (9.1ft)  |
| Heating and cooling circuit:                    | Cooling capacity: 15kW<br>Heating capacity: 15kW   | Switch cabinet:  | Length: 2450mm (8.5ft)<br>Width: 700mm (2.3ft)<br>Height: 2750mm (9.1ft)<br>Weight: 930kg (2050lb)<br>(incl. control console)    |
| Hydraulic power unit:                           | Medium: MIL-H-5606-NATO H 515<br>Reservoir: app. 60l (15.9USgal)<br>Flow: 0 to 20l/min<br>(0 to 5.3USgpm)<br>Pressure: up to 160bar<br>(up to 2320.6psi) | Hydraulic power unit:  | Length: 1200mm (3.9ft)<br>Width: 700mm (2.3ft)<br>Height: 1700mm (5.6ft)<br>Weight: 475kg (1047lb)                               |
| <b>&gt; Measurement range:</b>                  |  | Cooling power unit:  | Length: 2200mm (7.2ft)<br>Width: 1300mm (4.3ft)<br>Height: 1200mm (3.9ft)<br>Weight: 385kg (849lb)                               |
| Relative pressure: (16-off altogether)          | for example:<br>0 to 2bar (0 to 29psi)<br>or<br>0 to 100bar (0 to 1450psi)<br>±0.25% measurement range   | User interface:  | Length: 300mm (1.0ft)<br>Width: 250mm (0.8ft)<br>Height: 400mm (1.3ft)<br>Weight: 105kg (232lb)                                  |
| Absolute pressure: (1-off)                      | 0 to 10bar absolute<br>(0 to 145psi)<br>±0.07% measurement range   |  |  |
| Temperature sensor: (8-off)                     | 0 to 200°C (0 to 392°F)<br>±1K absolute  |  |  |
| Flow: (2-off)<br>(1-off)<br>(1-off)             | 0 to 80lpm (0 to 21.1USgpm)<br>0 to 16lpm (0 to 4.2USgpm)<br>0 to 4lpm (0 to 1.1USgpm)<br>±1% of full scale  |  |  |
| Rotational speed: (1-off)                       | 0 to 8500rpm<br>±4rpm absolute   |  |  |
| Voltmeter: (1-off)<br>(1-off)                   | 0 to 20V<br>0 to 40V<br>±0.5% of full scale  |  |  |



Example of a test set up



Switch cabinet and control console