

# Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based at Aldermaston in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

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## DO4000/DO4001 SPECIFICATIONS

| Range | Resolution | Typical Current | Accuracy @ 20°C ±5°C 1 year | Temperature Coefficient/°C |
|-------|------------|-----------------|-----------------------------|----------------------------|
| 4kΩ   | 1Ω         | 100μA           | ±(0.05% Rdg +0.02% FS)      | 30ppm Rdg + 1ppm FS        |
| 400Ω  | 100mΩ      | 1mA             | ± (0.05% Rdg +0.02% FS)     | 30ppm Rdg + 1ppm FS        |
| 40Ω   | 10mΩ       | 10mA            | ± (0.05% Rdg +0.02% FS)     | 30ppm Rdg + 1ppm FS        |
| 4Ω    | 1mΩ        | 10mA            | ± (0.05% Rdg +0.03% FS)     | 30ppm Rdg + 4ppm FS        |
| 400mΩ | 100μΩ      | 10mA            | ± (0.05% Rdg +0.05% FS)     | 30ppm Rdg + 25ppm FS       |
| 40mΩ  | 10μΩ       | 100mA           | ± (0.05% Rdg +0.1% FS)      | 30ppm Rdg + 25ppm FS       |

## DO4002 SPECIFICATIONS

| Range | Resolution | Typical Current | Accuracy @ 20°C ±5°C 1 year | Temperature Coefficient/°C |
|-------|------------|-----------------|-----------------------------|----------------------------|
| 400Ω  | 100Ω       | 1mA             | ±(0.05% Rdg +0.02% FS)      | 30ppm Rdg + 1ppm FS        |
| 40Ω   | 10mΩ       | 10mA            | ± (0.05% Rdg +0.02% FS)     | 30ppm Rdg + 1ppm FS        |
| 4Ω    | 1mΩ        | 100mA           | ± (0.05% Rdg +0.02% FS)     | 30ppm Rdg + 1ppm FS        |
| 400mΩ | 100μΩ      | 1A              | ± (0.05% Rdg +0.03% FS)     | 30ppm Rdg + 4ppm FS        |
| 40mΩ  | 10μΩ       | 1A              | ± (0.05% Rdg +0.05% FS)     | 30ppm Rdg + 25ppm FS       |
| 4mΩ   | 1μΩ        | 1A              | ± (0.05% Rdg +0.1% FS)      | 30ppm Rdg + 25ppm FS       |

### Measurement

4 terminal Kelvin/Thomson principle eliminates errors due to lead resistance

### Display

15mm LCD 4000 count with automatic decimal point and polarity indication

### Ranges

6 automatic or manual selection with LED indication

### Terminals

4mm safety sockets

### Working Temperature

0°C to +40°C rel. humidity 80% max. non-condensing

### Storage Temperature

-20°C to +50°C

### Safety

EN 61010-1 EMC-EN 61236

### Dimensions

215mm x 130mm x 55mm (W H D) approx  
467mm x 374mm x 216mm packed in carton

### Mass

0.8kg approx

### Zero

Button to null measurement offsets

### Protection

415 Vrms maximum at the measuring terminals will blow internal protection fuse

### Calibration

Digital security code protected

### Battery

Removable pack with 5 1.5V non-rechargeable batteries. Separate rechargeable pack, charger and docking station as optional extras

### CODE ▾

### ITEM ▾

### DO4000 SERIES OPTIONS

|         |   |
|---------|---|
| 4000-01 | Rechargeable battery pack includes battery cassette with rechargeable batteries. Docking station also acts as bench stand and charger |
| 4000-02 | Replaceable battery holder with non-rechargeable batteries  |
| 4000-03 | Replaceable battery holder with rechargeable batteries  |
| CB02    | Carrying bag with shoulder strap and lead pouch that has a clear front panel to enable full operation                                 |
| HS01-P  | 2 x Duplex handspike with 3 metre lead length   |
| HS02-P  | Duplex handspikes with 3 and 15 metre lead length   |
| LS03-P  | Lead set with 3 metre leads terminated in large Kelvin clips type KC3   |
| LS04-P  | Lead set with 3 metres and 15 metres lead length terminated in large Kelvin clips type KC3  |
| LS05    | Lead set with 4 x 1 metre leads terminated in banana plugs, 4 x crocodile clips, 4 x test probes and 2 x Kelvin clips type KC1        |
| LS06-P  | Lead set with 1 metre leads terminated in miniature Kelvin clips type KC2   |
| MTS2    | Calibration standard  |