

## OTS PB and OTS AF Range

### Fully automatic insulating oil dielectric breakdown testing



- NEW – Pinyin Chinese Text Input
- NEW - IEC60156-2018
- NEW - IEC60156-2018 V for Viscous Oils
- NEW - IEC60156-2018 Annex A
- NEW - IEC60156-2018 Annex A (V) for Viscous Oils
- NEW - GBT 507-2002 - Chinese Standard
- NEW - Chinese language on screen
- NEW - Withstand tests
- Full Range to suit all user needs
- Easy adjust – locking electrode gap
- Fast precision breakdown detection
- Ultra-fast HV switch off time
- Suitable for mineral, ester and silicone oils

#### DESCRIPTION

Megger's range of automatic oil test sets performs accurate breakdown and withstand voltage tests on mineral, ester and silicone insulating liquids. Common across the range precision, shatter proof test vessels are easy to clean and provide repeatable results, whether they are used in the field or laboratory featuring lock in precision electrode gap setting adjustment wheels. The transparent, shielded lid and large test chamber allows easy access to the test vessel, enabling users to see what is happening within the test chamber.

All of the current test standards world wide are preloaded in the instrument for convenient automatic operation, however should a new test standard or an existing standard be amended there are 3 custom tests that can be configured to the new requirements. This enables testing to continue to cover the short period while Megger updates the test procedure files. New updated files are then downloaded by the user and installed into the test instrument via a USB memory stick / flash drive.

Test results are identified either by a serial number or asset ID and are time and date stamped. The Megger asset and data management software, PowerDB Lite, is bundled at no extra cost providing an excellent tool for downloading and printing results.

An internal printer provides a hard copy of results. Ink based printout ensures durability at all temperatures. USB flash drive for easy transfer of test results, external USB printer and on the AF model a barcode scanner.

User safety is paramount and Megger have designed independent and dual redundant high voltage cut-off circuitry to ensure safety. During a test the operator can terminate by pressing any button on the keyboard which will remove high voltage immediately and abort the test. The transparent lid provides ample visibility within the chamber yet is protected and electrically shielded by a screen with multiple links to instrument ground.

#### OTS PB models

These 60 kV and 80 kV oil test sets are small and the lightest on the market with weight ranging from 16.8 kg to 20.8 kg depending on model configuration. The transport case and carry bag are optional accessories. The carry bag has pouches for electrode accessory pack, leads, quick user guide, paper roll etc. these units supplied mains powered and battery operated for additional flexibility in portable applications. All PBs are fitted with NiMH batteries.

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#### OTS AF models

These 60 kV, 80 kV and 100 kV models have a much larger test chamber for even easier access and cleaning, particularly useful in a lab environment. They are fitted with a 12 key alpha-numeric keypad to facilitate entry of test ID, file names, notes etc. Alpha characters are entered by repetitive pressing on a key. The AF models also have the ability to use a USB barcode reader to scan oil sample barcode labels, ideal for better integration within a laboratory.

#### APPLICATION

Monitoring and maintenance of oil quality is essential in ensuring the reliable operation of oil filled electrical equipment. Codes of practice have been established in many countries that include several different types of test on insulating oils.

One of the fundamental tests of oil quality is the breakdown voltage test, which is a measure of the oil's ability to withstand electric stress. A low breakdown voltage can indicate the presence of contaminants such as water or conducting particles.

In addition to the breakdown test, the withstand test is a measure of the oils ability to withstand a constant electrical stress. Failure to achieve this also indicates contaminants.

Care should be taken to ensure the process of sampling oil and subsequent testing does not in any way contaminate it with foreign objects. Cleaning vessels between oil tests should be a rinse with the next sample, never clean with fibrous materials. To ensure an accurate reading set gap carefully and lock adjusting wheels.

Refer to the OTSVesselPrep--2007-993\_AN\_en\_V0# for more details.

#### FEATURES AND BENEFITS

##### COMMON ACROSS PB AND AF

- Lock in precision oil vessel - lockable gap setting
- Flat electrode gap gauges that will not damage electrodes
- Oil temperature is measured continuously so it can be determined whether the oil test sample is within the range allowed by the test standards before the test is started
- QVGA colour display with adjustable backlight (easy to read in sunlight or dark conditions)
- Large, easy clean test chamber with oil drain
- High visibility test chamber
- Safe operation with dual redundant micro switches
- Intuitive user interface
- Fully automatic operation with preloaded international test standards
- User configurable test sequences to cover transition period of new / updated test standards (standards maintained via USB updates from Megger)
- All instruments supplied with one 400 ml test vessel in the box as standard
- Built onto a rigid box section chassis to prevent flexing on impact that otherwise would damage the transformer
- Unique built in chamber drain pipe for easy removal of oil accidentally spilt in test chamber, this can easily be connected to a lab waste system
- Selecting favourite tests speeds up selection by only displaying the standards regularly used by the user

##### OTS PB ADDITIONAL FEATURES AND BENEFITS

- Small and lightweight, lightest on the market starting at 16.8 kg
- Mains and battery powered for portable applications

##### OTS AF ADDITIONAL FEATURES AND BENEFITS

- Barcode scanning capability for oil sample ID
- Extra large test chamber for ease of use in high productivity application
- 12 key alpha-numeric keypad to facilitate entry of test ID, file names, notes etc.

## OTS PB and OTS AF Range

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#### COMMON PB AND AF OPTIONAL ITEMS

- Voltage check unit (VCM100D/VCM80D)
- 150 ml test vessel.

#### OTS60PB and OTS80PB OPTIONAL ITEMS

- Carry bag
- Transport case

#### OTS60AF, OTS80AF and OTS100AF OPTIONAL ITEMS






- Barcode scanner (USB)

#### AVAILABLE UPGRADE

To update your OTS to the new IEC60156-2018 standard please contact your local Megger Authorised Service Centre for details.

## OTS PB and OTS AF Range

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		OTS60PB	OTS80PB	OTS60AF	OTS80AF	OTS100AF
* Optional item						
** IEC 60156 recommends a separate test vessel is used for each type of fluid to be tested						
*** Important future proof feature						
<b>Standard items</b>						
<b>Internal printer</b>		■			■	
<b>NiMH battery</b>		■				
<b>Power cord</b>		■			■	
<b>Full electrode set - IEC and ASTM</b>		■			■	
<b>OTS Range Differentiating Features</b>						
<b>Max test voltage</b>	60 kV	■		■		
	80 kV		■		■	
	100 kV					■
<b>Power Supply</b>	Mains and NiMH battery operation	■				
	Mains only operation				■	
<b>Data management</b>	Internal test result memory	■			■	
	Download results to USB stick	■			■	
	Barcode scanning capability				■	
	Keypad for easy asset ID and memo entry				■	
<b>Ruggedness</b>	Tough display and chamber lid	■			■	
	Low cost shatter proof test vessel	■			■	
	Large corner protecting rubber feet	■			■	
	Rugged non-flex construction	■			■	
<b>Transport</b>	Transport case	■*				
	Protective carry case	■*				
	Light weight (<20.8 kg) one man carry	■				
<b>Operating costs</b>	Low cost test vessel (Vessel of each oil **)	■			■	
	Annual full calibration	■			■	
<b>Test standards</b>	Fast favourite list selection	■			■	
	Fully automatic test sequence	■			■	
	Test standards update via USB device ***	■			■	
	Custom tests	■			■	
<b>Cleanliness</b>	Easy pour / clean vessel design	■			■	
	Large test chamber (easy access)				■	
	Test chamber spilt oil drain	■			■	
<b>Accuracy</b>	Continuous oil temperature measurement	■			■	
	Lockable thumb wheel adjustable electrode gap	■			■	
	Voltage output verification unit available	■			■	

## OTS PB and OTS AF Range

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#### SPECIFICATIONS

##### Test voltage

OTS60PB	0 to 60 kV rms maximum (30 kV - 0 - 30 kV)
OTS80PB	0 to 80 kV rms maximum (40 kV - 0 - 40 kV)
OTS60AF	0 to 60 kV rms maximum (30 kV - 0 - 30 kV)
OTS80AF	0 to 80 kV rms maximum (40 kV - 0 - 40 kV)
OTS100AF	0 to 100 kV rms maximum (50 kV - 0 - 50 kV)

##### Voltage rise time

0.5 kV/s, 2.0 kV/s or 3 kV/s depending on selected test standard and 0.5 kV/s up to 10kV/s in custom test

##### Voltage rise time accuracy

better than 5%

##### Voltage resolution and accuracy

Up to 5 kV/s: 0.1 kV +/- 1% +/-2 digits  
5 kV/s up to 10 kV/s: 0.1 kV  
+/- 1% +/-4 digits

##### Programmed test sequences

- ASTM D 1816-12
- ASTM D 1816-12E (ester oil)
- ASTM D 877A-19
- ASTM D 877B-19
- AS1767.2.1
- BS EN 60156-96
- BS 5730a AD 30 kV
- BS 5730a AD 40 kV
- BS 5730a BCEF 22 kV
- BS 5730a BCEF 30 kV
- BS 148 / EN 60156
- CEI EN 60156-95
- Custom 5, 6 and 10
- GB/T 507-2002
- GOST 6581-75
- IEC 60156-95
- IEC 60156-2018
- IEC 60156-2018V
- IEC 60156-2018 Annex A
- IEC 60156-2018 Annex A (V)
- IRAM 2341
- IS 6792-2017
- IS 6792-2-2017
- JIS C 2101-99 (M)
- JIS C 2101-99 (S)
- NF EN 60156
- PA SEV EN60156
- SABS EN60156
- UNE EN 60156
- VDE0370 part 5
- Withstand A
- Withstand B

##### Vessels

400 ml (standard)  
150 ml (accessory)

Carefully designed test vessels manufactured from the most chemical resistant clear polymer on the market provides tried and tested reliable test results. Featuring precision electrode alignment and adjustment wheels that lock electrodes in position, the option of a 150 ml vessel for low volume oil samples is also available

##### Temperature measuring range

10 °C to 65 °C (ASTM D877 requires oils to be within 20 °C and 30 °C) (IEC 60156 required oil to be within 15 °C and 25 °C)

##### Temperature sensor resolution

1 °C

##### Power supply

Line voltage 85 to 265 VAC  
Line frequency 50/60 Hz

##### Battery type

NiMH 24 V 2 Ah (OTS60PB or OTS80PB ONLY)

##### Power source:

85 V – 265 V 50/60/400 Hz input.  
Portable unit can be powered from 85 V – 265 V or its internal battery.

##### Battery life:

10 test sequences up to 70 kV using 2 Ah battery

##### Charge retention at 20°C:

NiMH 50% discharged after 1 month

##### Battery charging:

Automatic when connected to power source. Charge time 16 hours slow or 2 hour fast charge to >90%

##### Interface

2 x USB type-A (Flash drive, printer) ,  
1 x USB type-B (Factory use)

##### Internal printer

Matrix impact printer  
Paper 57.5 mm wide

##### External printer:

supports PCL3, PCL6, PS and EPS

##### Protection

Dual safety micro switches on chamber cover

##### Display

3.5 in display. 320 x 240 QVGA colour display with backlight

##### Operating temperature range and humidity

0 °C to +50 °C.  
80% RH at 40 °C  
non-condensing conditions

##### Storage temperature range and humidity

-30 °C to +65 °C .  
95% RH at 40 °C  
non-condensing conditions

##### Maximum altitude

1000 m

##### IP rating

IP30

##### Safety

Designed in accordance with IEC61010

##### EMC

Light industrial IEC 61326-1 Class B,  
CISPR 22, CISPR 16-1 and CISPR 16-2

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#### Dimensions

OTS60PB	520 mm x 340 mm x 250 mm
OTS80PB	520 mm x 380 mm x 250 mm
OTS60AF	580 mm x 420 mm x 290 mm
OTS80AF	580 mm x 420 mm x 290 mm
OTS100AF	580 mm x 420 mm x 290 mm

#### Weight

OTS60PB	16.8 kg
OTS80PB	20.8 kg
OTS60AF	30 kg
OTS80AF	30 kg
OTS100AF	30 kg
Test vessels	1.1 kg (400 ml and 150 ml)

#### Language

English, French, German, Spanish,  
Czech, Dutch, Finnish, Italian, Norwegian,  
Polish, Portuguese, Russian, Swedish and  
Chinese

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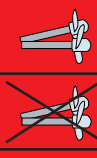
#### PROGRAMMED TEST SEQUENCE OVERVIEW

Standards complied with and programmed	Oil types tested		Electrode gap options (mm)				Electrode shape options			Oil stirring options		Voltage rise rate options			Breakdown test sequence		
	Mineral Ester HMWH*	Silicone	1.0	2.0	2.5	2.54	4.0			0.5 kV/s	2 kV/s	3 kV/s	Number of tests	Initial stand time	Time between tests		
AS1767.2.1	■	■		■				■	■	■			6	5 mins	2 mins		
ASTM D 1816-12	■	■	■					■	■				5	3 mins	1 min 15s		
ASTM D 1816-12E (Ester)	■	■	■	■				■	■				5	30 mins	1 min 15s		
ASTM D 877A-19	■	■				■			■			■	5	2 mins	1 min		
ASTM D 877B-19	■	■				■			■			■	1 x 5	2 mins (x5)	N/A		
BS148 EN60156	■	■			■			■	■				6	5 mins	2 mins		
BS 5730a AD 30 kV/40 kV	■	■			30 kV = 2.5	40 kV = 4.0		■	■				3	10s to 600s	N/A		
BS 5730a BCEF 22 kV/30 kV	■	■			22 kV = 2.5	30 kV = 4.0		■	■				4	10s to 600s	N/A		
BS EN 60156-96	■	■			■			■	■				6	5 mins	2 mins		
CEI EN 60156-95	■	■			■			■	■				6	5 mins	2 mins		
Custom 5, 6 and 10	■	■			1.0 to 7.0			■	■				5, 6 or 10	10s to 600s	10s to 600s		
GBT 507-2002	■	■			■			■	■				6	5 mins	2 mins		
GOST 6581-75	■	■			■			■	■				6	10 mins	5 mins		
IEC 60156-95	■	■			■			■	■				6	5 mins	2 mins		
IEC 60156-2018	■	■			■			■	■				6	5 mins	2 mins		
IEC 60156-2018 (V)	■	■			■			■	■				6	15 mins	6 mins		
IEC 60156-2018 Annex A	■	■			■			■	■				10	5 mins	1 mins		
IEC 60156-2018 Annex A (V)	■	■			■			■	■				10	15 mins	3 mins		
IRAM 2341	■	■			■			■	■				6	5 mins	2 mins		

\* High Molecular Weight Hydrocarbon

## OTS PB and OTS AF Range

### Fully automatic insulating oil dielectric breakdown testing

...Continued	Oil types tested		Electrode gap options (mm)				Electrode shape options			Oil stirring options		Voltage rise rate options			Breakdown test sequence		
	Mineral Ester HMMWH*	Silicone	1.0	2.0	2.5	2.54	4.0			0.5 kV/s	2 kV/s	3 kV/s	Number of tests	Initial stand time	Time between tests		
<b>IS6792 -2017</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	10 mins	2 mins		
<b>IS6792-2 -2017</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	10 mins	6 mins		
<b>JIS C 2101-99 (M)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5 x 2	2 mins	1 min		
<b>JIS C 2101-99 (S)</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1 x 5	2 mins (x5)	N/A		
<b>NF EN 60156</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	5 mins	2 mins		
<b>PA SEV EN 60156</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	5 mins	2 mins		
<b>SABS EN 60156</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	5 mins	2 mins		
<b>UNE EN 60156</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	5 mins	2 mins		
<b>VDE 0370 part 5</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	5 mins	2 mins		
<b>Withstand A</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.5 to 4.0				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	10s to 600s	N/A		
<b>Withstand B</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.5 to 4.0				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	10s to 600s	N/A		





\* High Molecular Weight Hydrocarbon



## OTS PB and OTS AF Range

### Fully automatic insulating oil dielectric breakdown testing

#### ORDERING INFORMATION

Description	Order Code	Description	Order Code
<b>OTF PB Models</b>		<b>Optional accessories</b>	
<b>OTS60PB</b>		<b>OTS IEC60156 Electrode set contents - supplied in accessory case</b>	
OTS60PB-EU	1014-525	12.7 mm spherical electrodes (2)	
OTS60PB-UK	1014-526	36 mm mushroom electrodes (2)	
OTS60PB-US	1014-527	Magnetic stirrer bar (2)	
OTS60PB-AU	1014-528	Magnetic stirrer bar retriever (1)	
<b>OTS80PB</b>		Gap gauge set	1001-477
OTS80PB-EU	1014-529	<b>OTS ASTM D877/D1816 Electrode set contents – supplied in accessory case</b>	
OTS80PB-UK	1014-530	25.4 mm standard (sharp edges) cylindrical electrodes (2)	
OTS80PB-US	1014-531	25.4 mm non-standard (round edges) cylindrical electrodes (2)	
OTS80PB-AU	1014-532	36 mm mushroom electrodes (2)	
<b>Included accessories (OTS PB models)</b>		Magnetic stirrer bar (2)	
Vessel 400 ml assembly (stirrer lid fitted)		Magnetic stirrer bar retriever (1)	
Full electrode set - IEC and ASTM		Gap gauge set	1001-478
IEC and ASTM impeller		<b>Full electrode set (covers IEC and ASTM standards)</b>	
Printer,		12.7 mm spherical electrodes (2)	
NiMH battery,		36 mm mushroom electrodes (2)	
Electrode gauge set		25.4 mm standard (sharp edges) cylindrical electrodes (2)	
Calibration certificate		25.4 mm non-standard (round edges) cylindrical electrodes (2)	
Power DB guide		Magnetic stirrer bar (2)	
Quick Start Guide		Magnetic stirrer bar retriever (1)	
OTS Vessel Preparation Guide		Gap gauge set	1001-479
<b>OTF AF Models</b>		Vessel lid mounted impeller (ASTM or IEC)	
<b>OTS60AF</b>		for use with 400 ml vessel	1001-102
OTS60AF-EU	1014-533	Carry bag (padded) OTS80PB	1001-476
OTS60AF-UK	1014-534	Carry bag (padded) OTS60PB	1001-480
OTS60AF-US	1014-535	Vessel 400 ml assembly (no electrodes supplied)	1001-473
OTS60AF-AU	1014-536	Vessel 150 ml assembly (no electrodes supplied)	1001-474
<b>OTS80AF</b>		VCM100D digital voltage checker	1001-105
OTS80AF-EU	1014-537	VCM80D digital voltage checker	1001-801
OTS80AF-UK	1014-538	Printer paper, 20 rolls	
OTS80AF-US	1014-539	(4 rolls supplied if printer configured)	1008-030
OTS80AF-AU	1014-540	Printer Ribbon Cassette	25995-002
<b>OTS100AF</b>		Barcode reader, USB	1001-047
OTS100AF-EU	1014-541	Transport case (with wheels)	1001-475
OTS100AF-UK	1014-542	ASTM alternative propeller shaft assy	1007-153
OTS100AF-US	1014-543	IEC alternative propeller shaft assy	1007-154
OTS100AF-AU	1014-544	Electrodes - Spherical (pair)	6220-484
<b>Included accessories (OTS AF models)</b>		Electrodes - Mushroom (pair)	6220-580
Vessel 400 ml assembly (stirrer lid fitted)		Electrodes - Cylindrical (pair)	6220-483
Printer		Electrodes - Non-standard cylindrical with	
Full electrode set - IEC and ASTM		0,5 mm edge radius (pair)	6220-538
Electrode gauge set		Electrode gauge set 1, 2, 2.5, 2.54, 4 mm	1002-144
IEC and ASTM impeller			
Calibration certificate			
Power DB guide			
Quick Start Guide			
OTS Vessel Preparation Guide			
If you wish to upgrade your existing OTS please contact your local Megger Authorised Service Center for prices and availability		   	<p>EU Lead      UK Lead      US Lead      AU Lead</p>

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Description	Order Code
<b>Calibration certificates</b>	
Calibration Certificate OTS AF	1001-921
Calibration Certificate OTS PB	1001-920
UKAS Calibration Certificate OTS60 AF	1000-089
UKAS Calibration Certificate OTS80 AF	1000-091
UKAS Calibration Certificate OTS100 AF	1000-088
UKAS Calibration Certificate OTS60 PB	1000-090
UKAS Calibration Certificate OTS80PB	1005-943

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ISO 9001

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