Conductivity - HHCM (Field Test) > Replaced by 13-3180

ASTM D 2624, ISO 6297, DIN 51412-2, IP 274, JIS K2276

Product group(s): Fuel

User group(s): Jet, Jet Fuel

Scope: For determination of the electrical conductivity of aviation and distillate fuels with and without a static dissipator additive. It will give a measurement of the conductivity when the fuel is uncharged, that is, electrically at rest (known as the rest conductivity).

Two procedures are availabe:
• **portable meters** for the direct measurement in tanks or the field or laboratory of fuel samples
• **In-line meters** for the continuous measurement in a fuel distribution system

The **portable Conductivity Meter** provides precision measurement of low conductivity liquids. Therefor a voltage is applied across two electrodes in the fuel. The resulting current is expressed as a conductivity value.

- Conductivity and temperature compensated measurement
- Internal real time date & clock for data record keeping
- Easy to use with gloves on
- Bluetooth data link
- Data graphing software

This unit is ideal for hand sampling of low conductivity fluids such as aviation kerosene, ULSD, home heating fuel and naptha.

The display is indicating conductivity & temperature and up to 10 sampled data points along with temperature & time can be held in internal non volatile memory, for either readout on the display or transfer to a personal computer by the built-in Bluetooth data link.

The optional **Data Graphing Software** allows the download of data, time synchronization, reading of constants, graphing, trending, sample memory names, and calibration status.
It is free for download and is recommendable if the Wall Charger is used but it requires a bluetooth interface on the PC.

Conductivity Test Equipment

More details are mentioned in the "Order Number" section

Technical Data

Measuring range:	0 ... 2000 pS/m (picosiemens/meter)
Resolution:	0.1 pS/m
Accuracy:	± 1.5 pS/m (± 1.5% of reading)
Output:	128 x 64 dot matrix display
	USB connection for data transfer to PC
	Bluetooth interface (optional)
Conductivity Sensor:	316 SS Coaxial electrode K=.02
Temperature Sensor:	platinum RTD NIST traceable calibration
Material of:	housing made of polyamide (acc. ATEX)
	sensor made of 316 SS and PEEK
Battery life:	approx. 1000 samples
	(approx. 48 h w/o recharging)
Weight:	approx. 500 g

Main Unit

13-3620 **Hand-Held Conductivity Meter - HHCM (Field Test)**
ASTM D 2624 - DIN 51 412-2 - ISO 6297 - IP 274 - JIS K2276

Consisting of:
handheld unit in polyamide housing; built-in platinum temperature sensor; 316 SS Coaxial Electrode K=.02; internal real time date & clock; 128 x 64 dot matrix display; internal non volatile memory; built-in Bluetooth data link; built-in Lithium-Ion battery.
Built for Class I Div 2 Hazardous Locations (Category 3, IEC Zone 2 certified).

Supplied with: universal AC power supply (incl. adapter)

Power supply: Battery (9 V DC rechargeable)

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Options & Accessories

13-3605	**Beaker, metal with grounded wire**
13-3606	**Stand for conductivity meter, metal**
13-3607	**USB cable**
13-3609	**Bluetooth Device (incl. USB drivers)** to be installed on an USB port of computers without Bluetooth connection. Necessary to use the Data Graphing Software.
13-3610	**Wall Charger, wall-mounted frame with universal AC power supply** to hold & charge the conductivity meter during storage. The Data Graphing Software is recommended.
13-3608	**Carrying Case**

Spare Parts

13-3611	**Adapter-Plug, to convert US-plugs into EU-plugs** suitable for grounded plugs & sockets equipped with protective-earth contacts. (does not include a current converter!)

Order Guideline

Minimum equipment: 1x 13-3620
Additional requirements:

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