

ESTERCHECK

A portable instrument for the measurement of Diesel/Bio Diesel (FAME) mixture



SA3000-2 ESTERCHECK

EN 14078 Correlation

- Contamination warning
- Instant measurement
- Accurate to less than 1% Bio Diesel
- Hand held robust enclosure - IP 64 rated
- Rechargeable battery operated
- Simple display
- Stainless steel easy clean sensor
- Automatic calibration
- Patent pending

With increasing instances of material compatibility problems with FAME products, such as fuel pumps, the measurement of bio ester in diesel is now a key test parameter for many users. Recent advances in RF sensor technology provide a portable and low cost solution for this measurement. The robust sensor design is ideally suited for on site work as an early warning of possible contamination. The test procedure requires no special skills or lab conditions and is therefore suitable for a broad range of applications, from batch checking fuels at terminals, through to monitoring fuel supplies for standby power generation systems. Independent trials show good agreement with laboratory based FTIR methods.

EsterCheck is easy to operate - simply dip the probe into the sample to be measured then press 'measure' and % bio diesel will be displayed (reading is stored with time and date). EsterCheck is housed in a robust case with mini USB port that can download readings to a host computer as well as charge the unit.

An additional advantage of the sensor technology is the capability to provide an indication of contamination by non refined vegetable oil, petrol or water, providing a means to ensure integrity of fuel supplies whilst safeguarding plant and storage systems.

The instrument is supplied in a hard case with charger (with international adaptors), sample pots, software disc and user manual. Other accessories, including sample holder and multiple sample storage unit, are available.



SA3000-2

SPECIFICATIONS

| | |
|-------------------------------|----------------------------------------------------------|
| Compatible Diesel types: | EN 590, ASTM D975 |
| Detectable Bio Diesel (FAME): | RME, SME, PME and composite FAMES (EN 14214, ASTM D6751) |
| Detectable vegetable oils: | Sunflower, Rapeseed, Corn Oil, Ground Nut Oil |
| Measurement range: | 1 - 100% Bio Diesel |
| Device storage temperature: | -40 to +70°C |
| Working temperature range: | +5 to +40°C |
| Minimum sample container: | 30ml |
| Enclosure: | IP 64 |
| Size (HxWxD): | 17 (25 with probe) x 8.6 x 3.4cm |