

# assero TAN

## Acidity in Oil Meter



The assero TAN Total Acid Number titrator exclusively available from Energy Maintenance technologies (EMT) Ltd has been designed to offer maximum specifications and features whilst being priced at a very competitive level.

This titrator conforms to ASTM D664 for determination of acidic constituents in petroleum products, lubricants and transformer insulating oils.

### Features

- Simple to use for new users to TAN
- Fast and Precise results (5 min max)
- Built in pre-programmed TAN method.
- Measurement down to 0.001mg/g KOH acidity
- Results in mg KOH/g.
- Compact and light- weighs less than 5 kg
- Data Logger for the last 50 titration results.
- Transmission of results to printer or PC.
- High precision 10ml syringe.
- Resolution 1/40,000 of syringe vol (0.25ul)

### Quality Control

```

=====
ASSERO TAN                               SN:92901 V2.0
Monday, 02 November 2009                    15:13
ANALIZE TAN > 0.1
=====
Sample ID: 000001
Sample      Volume      Result      Time
(g)         ml           mg KOH/g    mm:ss
-----
    20.0000    0.990      0.24      04:38

                                           Stirring 30%

Operator: Operator 1
  
```

# assero TAN Technical Specifications

PART NO. assero TAN

## Non-volatile memory

3 titration programs depending on TAN content,  
Blank titration, Clock/calendar.

Name of up to 4 operators

Up to 50 results stored in Data Logger

## Languages

English, Spanish, French, Italian

## Display

Graphic backlit LCD, 128 x 64 dots

## Keypad

Membrane, 7 keys, guaranteed up to 6 million  
strokes per key

Material: PET with protective treatment

## Syringe volume

Standard syringe 10 ml

## Resolution

1/40000 of syringe volume (0.25ul)

## Dispensing accuracy

≤ 0.2 % for volumes higher than 10 % of syringe

## Dispensing reproducibility

± 0.1 % for volumes higher than 10 % of the  
syringe

## Liquid contact materials

Syringe: borosilicate glass and PTFE

Electrovalve: PTFE and KEL-F. Tubes: PTFE

## Inputs and outputs

Differential measurement: 2 BNC connectors.

For external keyboard, miniDIN connector.

RS232C bidirectional for PC or printer, telephone  
connector.

RS232C for balance, telephone connector

Stirrer control: On/Off and speed, RCA connector

## Power supply

110 – 240 V AC, 50-60 Hz

## Electrical safety

Meets EC, EN 61010

## EMC

Meets EC, EN 50081-2 and EN 50082-2

## Permitted temperatures

Operating: 10 – 40 °C. Storage: 10 – 50 °C

≤ 80 %, relative humidity, non condensing

## Enclosure

ABS and enamelled steel

## Physical parameters

Weight: 4 kg approx.

Dimensions: 130 x 160 x 300mm

