

Electronic

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**Milk Meter** 

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# Accurate Fast Efficient

Three components are central to the Tru-Test **Electronic Milk Meter** system.

Tru-Test **Electronic Milk Meter** Tru-Test Data Handler Milk sample vials

Milk Sample Via







EID Reade

Tru-Test Electronic Milk Meter (EMM) has been developed in close association with Herd Improvement Organisations to ensure an integrated operation from farm to laboratory.

Tru-Test Electronic Milk Meter is an ICAR approved portable device that will automatically record milk yield, automatically dispense a representative sample, read uniquely identified milk sample vials, and communicate wirelessly with the Tru-Test Data Handler.

vial, cow number and milk yield information. Milk yield and cow numbers no longer have to be recorded by hand.

## Traceability from farm to laboratory

#### Features

- Uses a uniquely identified sample vial so that the sample in the vial is electronically linked to a cow identification number.
- Smart software in the milk meter checks that there is a new sample vial fitted and the cow number is entered before commencing automatic sampling.
- Milk yield is recorded on the farm by the meter.
- Sample is stirred and then precisely dispensed - automatically.
- Battery operation for ease of use in all parlours and barns.

Data Handler





Cow number entry is done via the Tru-Test Data Handler that automatically matches the milk sample

The milk sample vials used with the Tru-Test Electronic Milk Meter can be uniquely identified by either barcode labels or by RFID tags. Sample vials do not need to be sequenced in trays.

seamless linking of data.



Tru-Test Electronic Milk Meter system can interface to animal RFID systems allowing fast, accurate and

- Utilises the well proven Tru-Test proportional milking head.
- Data Handler uses radio frequency (RF) to communicate with the EMM.
- Herd information can be preloaded in to the Data Handler for on-the-spot checking for errors.
- Data Handler link allows printouts of yield on the farm, on the day of the test and two way communication with the herd recording database.
- Software based so that the system can be tailored to customer's requirements.
- PC Interface



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- Can take animal IDs from RFID tags, speeding up the entry of animal IDs and minimising errors.
- Data Handler Bluetooth interface to PDA devices.

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- Data Handler has flexibility to be used with other systems, for example Tru-Test mechanical WB Milk Meters.
- ICAR approved.





## Tru-Test Electronic Milk Meter

Case housing electronics Battery run time Time to recharge battery Two keys Three lights Sample size Size

Weight Bracket options

Inlet tube

Display

### **Tru-Test Data Handler**

Case Battery run time Time to recharge battery Data entry Waterproof Orientation Interface to PC Interface to printer Size

Weight RFID tag reader compatibility

Printer compatibility

Bluetooth or RS232 serial interface Baud rate 9600 bps 8 data bits, no parity Continuous paper feed

IP67 waterproof

40 hours typical <10 hours typical

Width 100 mm Depth 130 mm 1.6 kg without bracket

19 mm diameter

IP67 waterproof Up to 26 hours

<10 hours typical

USB or Bluetooth

Height 160 mm

Width 100 mm

Depth 38 mm 0.4 kg

RS232 serial communication

Duplex, X-on / X-off protocol

15 keys

Portable Parlour

Select; Finished Milking, Release Sample Action Required; Low Battery; End of Milking

2 x 16 alpha-numeric LCD with backlight

Tested for typical washing procedures Bars parallel to top of vial

User defined. 20-30 ml typical

Height 350 mm + inlet tube

#### Milk Sampling Vials

Bar

RFID Vial

Vial Vail

Cap

ode label	Interleaved 2 of 5, 7 digit + check digit
	Waterproof, tested for typical washing procedures
	Orientation bars parallel to top of vial
	Barcode starts from the bottom of the label
chip	13.56 MHz read-write
size	Diameter 28.9 mm
	Length 75.6 mm
material	Polypropylene
colours	Amber
	Clear
colours	Green / Red / Yellow
	(Note: the green cap is tighter than the red and yellow caps. The red an yellow caps are suitable for mechanical / robotic handling applications.)

(These details are for standard vials. Customer variations are available.)

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# Tru-Test Electronic Milk Meters **Efficient Data Integration**



# A World of Solutions