205 Westwood Ave Long Branch, NJ 07740 1-877-742-TEST (8378) Fax: (732) 222-7088 salesteam@Tequipment.NET

MTX 3281 MTX 3282 MTX 3283

"MTX HAND-HELD MULTIMETERS"

Graphic digital multimeters 100,000 counts TRMS



From the laboratory to the field, a single diagnostic instrument, powerful and complete!

- Large swivelling graphic LCD display, bilingual menus (French/English)
- 4 x 100,000 count digital displays, bargraph, graphic measurement log
- Basic precision 0.02 %, bandwidth 200 kHz
- 3 measurement terminals with automatic selection, complete "AUTORANGING" in current
- 8-key "virtual" measurement selector with "one-hand" direct access
- "SPEC" function for direct display of measurement uncertainties
- With the "AUTOPEAK" mode, no more peak factor limitation
- Frequency measurements up to 2 MHz, durations, duty cycle, counting of events
- Temperature measurements using Pt 100, Pt 1000 probes, J and K thermocouples
- "Preferred measurement" key assigned to any physical quantity (conversion & unit)
- Storage of 6500 measurements with date and time (up to 4 simultaneous parameters)
- USB, or Bluetooth communication (model dependent)
- Power supply by batteries, rechargeable NiMH storage batteries, or main power supply





A new standard in metrological performance and accuracy

On its launch, the ASYC2 range from Metrix® established a new standard in metrological performance, both for its high-performance specifications and its entirely new "virtual adjustment" functions, representing a breakthrough in field instrument technology. The latest ASYC3 range (MTX 3281, MTX 3282 and MTX 3283) continues this tradition of innovation, with top of the range handheld multimeters offering a resolution of 100,000 counts, a basic precision of 0.02 % and a 200kHz bandwidth: performance and precision that sets them apart from the competition.

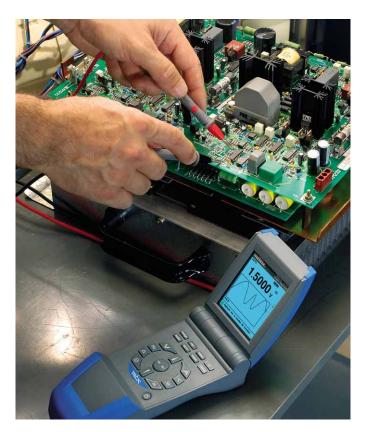
Innovative features and performances that are user-managed thanks to the optional calibration software, making periodical checks faster, easier and more economical.

Specially designed for laboratory and field use

Their unique design, featuring a multidirectional screen and electronic control switch, makes this range of instruments ideally suited for both tabletop and hand-held use.

The power supply system is equally innovative, offering all the benefits of a modern instrument, while combining a rechargeable accumulator for on-site use, and a mains adapter that also functions as a charger for the laboratory.

Thanks to this dual mains supply system, recordings over longer periods are no longer vulnerable to untimely power outages on the instrument.



Efficient by design: enhanced handling for ease of use

Compact and robust when not in use, the ASYC3 range's "variable geometry" design provides enhanced handling and ergonomics when opened out, thanks to its simple lines and extra-slim casing. Its "one-hand one-touch" design enables the instrument to be held and operated by the same hand: measurement functions are selected by simply pressing on the appropriate key of the electronic control switch.

In addition, a specially designed hands-free carrying pouch leaves the user free to operate the required lead connections, avoiding the need for cumbersome fittings and accessories.



For optimal efficiency and safety, the instrument proposes only 3 measurement terminals.

When the mobile lead is connected to the Ampere or Volt terminal, the corresponding function is automatically selected in AC+DC mode, complete with auto-ranging, thus reducing handling and operating to a minimum.

Its fully moulded casing, both self-extinguishing and extraresistant, offers IP51 protection rating.

Display features not usually found on this type of instrument

For greater reading comfort, the series features an extra large multidirectional backlit screen offering multiple display functions and analogue bargraph. About the neck, on a tabletop, or in the hand: whatever the position, the display remains visible.

A "preferred measurement" key allows the user to programme automatic access to their most frequently used measurement mode.

Whatever the physical quantity measured, this key enables you to convert the scale and define the appropriate measurement unit, so as to obtain direct readings of the original quantity.



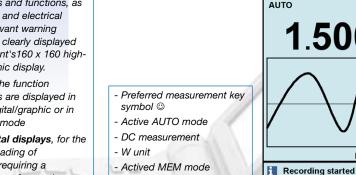
Selected modes and functions, as well as physical and electrical values, and relevant warning symbols, are all clearly displayed on the instrument's 160 x 160 highresolution graphic display.

Depending on the function selected, results are displayed in either mixed digital/graphic or in uniquely digital mode

Features 4 digital displays, for the simultaneous reading of measurements requiring a minimum number of operations (combination of measurements: SPEC, REL, MEM, SURV).

In mixed display mode, the digital display offers stable and accurate measurement readings, while rapid variations are clearly indicated by the bargraph. A 3rd dimension is added thanks to the instrument's graphic recorder, enabling you to display measurement variations

All operating menus and help windows are available in 2 languages (English and French).



Thanks to technological improvements resulting in a single "A" terminal, current measurements may be carried out from a single switch position, making for fluid and trouble-free changes of the measurement range, from just a few hundred micro Amperes to up to 20 Amperes.

> 60s

MEM 2

Current and voltage measurements may even be carried out simultaneously, using 3 measurement leads, and the corresponding result "V x A" displayed.



Electronic control switch and direct access one-touch keys

The only instrument of its kind equipped with an electronic control switch that replaces traditional mechanical switches (the primary cause of malfunctions on conventional hand-held multimeters), the ASYC3 range offers at the same time improved performances and safety features. Direct access one-touch controls



remove the need for the intermediate

positions found on conventional mechanical control switches. The principal measurement modes are instantly accessible using the instrument's 6 direct-access keys, making it no longer necessary to choose between the 4 or 5 positions required by conventional mechanical switches in order to carry out simple voltage or current measurements.



Technology in the service of safety

Lead/command coherence is fully managed by the multimeter, which upon detecting a lead present on the Ampere or Volt terminals, automatically selects the corresponding function.

When a lead is connected to the Volt terminal, for example, the instrument automatically proposes to check for the presence of voltage before carrying out resistance or capacitance measurements.

On the practical side, the Ampere input's single HRC fuse has made it possible to reconcile the instrument's compact design with the increased safety distances required by compliance with IEC standards $61010\ 1000\ V$ / Cat. III, $600\ V$ / Cat. IV.

An innovation that also represents an effective safeguard against wiring errors, liable to destroy the safety fuses normally used for current measurements.

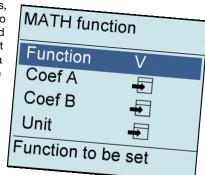
The battery and fuse compartment has been designed for greater protection, providing secured access that requires leads to be disconnected before opening.

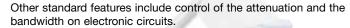
Innovative functions for all-round measurement performance

Thanks to its ${\bf MATH}$ function, the ASYC3 series is particularly suited to the measurement of different physical units. This allows

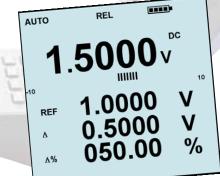
the user, whether measuring physical quantities in Volts, Amperes, Hertz or Ohms, to convert the quantity and assign the appropriate unit to it, in order to obtain a direct reading on the secondary display unit of the original quantity.

This type of function may be assigned directly to the "Favourite measurement" key, in which case it is carried out automatically.





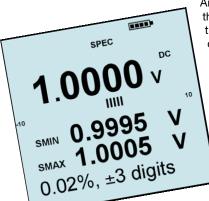
The dB function on the ASYC3 series enables you to display all the information you need directly, including voltage, frequency, and attenuation in dB, with respect to reference values.



Thanks to the instrument's 4 digital displays, the relative function **REL** provides comprehensive simultaneous display of the absolute and absolute drift values, relative drift % and reference value. For greater comfort, the reference value can be adjusted directly using the **REL** function key.



Thanks to its innovative **AUTOPEAK** mode, changes of current and voltage ranges are now based on the rapid acquisition of peaks, in order to avoid untimely overruns of the instrument's Peak Factor, liable to result in measurement errors without the user being aware of it. Except for the instrument's 1000 V range, this removes the need for limitation of the peak factor.



Another innovative feature is the instrument's **SPEC** function, which automatically displays measurement tolerances without the user needing to calculate it.

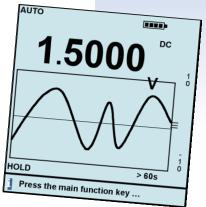
The user is thus in complete control of the measurement uncertainties, whatever the range and the AC signal frequency.



Enhanced features and performance for error-free fault detection

The ASYC3 series, offering the combined features of both a multimeter and a recorder, is the perfect all-round diagnostics tool for your maintenance, adjustment or development needs, on-site or in the laboratory.

Whatever your electronics applications, be they in the domain of processes, production equipment or energy distribution, the ASYC3 series ensures a cutting-edge difference.



The ASYC3 series' graphic recorder display offers a 3rd dimension in measurement performance, providing you with at-a-glance graphic display of measurement variations over time.

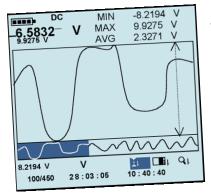
1.5000 v minim avera meas date/and value tore

1.5000 V max 2.5000 V SURV

Start :

In addition, its **SURV** function enables you to display and record simultaneously the minimum, maximum and average values of a given measurement, as well as the date/time recording of limit and beginning and end values, for the period monitored.

Start:
27/03/2005 10:07:11
Stop:
27/03/2005 10:10:30
Mini: -1.0000 V
27/03/2005 10:08:25
Max: 2.5000 V
27/03/2005 10:09:25
Avg: 1.3000 V



The **MEM** function enables you to record up to 6500 date/time measurements, for periods ranging from 1 sec to 24 hrs, and to analyse the results graphically for up to 4 simultaneous measurements.

Thanks to its PC-compatible analysis software, measurement results may be exported in real-time or deferred mode, enabling you to store, analyse, document and transfer data to a standard spreadsheet programme.

The measurement of individual or periodical rapid peaks of 250 µs, using the instrument's **PEAK** function, makes it possible to pinpoint anomalies that are normally undetectable using conventional multimeters, and to carry out first-hand diagnosis of signal types based on the **Peak Factor** displayed.

Universal communication technology

Thanks to USB ports, and integrated Bluetooth technology, the ASYC3 series provides you with universal communication that is adapted to all working environments.



TECHNICAL CHARACTERISTICS

MTX3282 (2)

MTX3283 (3)

MTX3281 (1)



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