Standard MTS

Product Catalogue

Device

Standard Meter Test System
for 10 Positions
– Premium Communication –

Ord.No. **101648100**

This predefined, standardized meter test system is suitable for testing metrology and communication of the meter. Using the digital measuring system of the STM6000 series the highest level of data communication test of a Smart Meter is possible.

The offered system consists the following components

Number of test positions
- 10 measuring stations (1 test table)

Mechanical part
- TK325 scanning head with
  scanning head suspension – advanced
- TK2020-02 infrared scanning head
- Quick connecting device 60 A
- Set meter suspension and connection via free wiring

Measuring system
- STM6000 digital measuring system with
  CR2020 basic interface

Calibration
- Factory calibration , 50 Hz or 60 Hz
- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI222, Current Amplifier 3x
- VU221, Voltage Amplifier
- ICT123, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DLMS license (**optional on request**)
- Test case accord. to FNN guideline
  (**license,optional on request**)
- DTS100 Mobile Computer and Scanner (**optional**)
- Security package (**optional**)

A detailed description of the individual components can be found at www.zera.de.

Standard Meter Test System
for 20 Positions
– Premium Communication –

Ord.No. **101655700**

This predefined, standardized meter test system is suitable for testing metrology and communication of the meter. Using the digital measuring system of the STM6000 series the highest level of data communication test of a Smart

Meter is possible.

The offered system consists the following components

Number of test positions
- 20 measuring stations (2 test tables)

Mechanical part
- TK325 scanning head with
  scanning head suspension – advanced
- TK2020-02 infrared scanning head
- Quick connecting device 60 A
- Set meter suspension and connection via free wiring

Measuring system
- STM6000 digital measuring system with
  CR2020 basic interface

Calibration
- Factory calibration , 50 Hz or 60 Hz
- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI202, Current Amplifier 3x
- VU221, Voltage Amplifier
- ICT123, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DLMS license (**optional on request**)
- Test case accord. to FNN guideline
  (**license, optional on request**)
- DTS100 Mobile Computer and Scanner (**optional**)
- Security package (**optional**)

A detailed description of the individual components can
be found at www.zera.de.

**Standard Meter Test System
       for 10 Positions
– Advanced Communication –**

Ord.No.	**101641900**

This predefined, standardized meter test system is suitable
for testing metrology and communication of the meter.
Using additional interfaces an advanced data
communication test of a Smart Meter is possible.

The offered system consists the following components

Number of test positions
- 10 measuring stations (1 test table)

Mechanical part
- TK325 scanning head with
  scanning head suspension – advanced
- CA2000 Communication adapter
- Quick connecting device 60 A
- Set meter suspension and connection via free wiring

Measuring system
- STM4000 digital measuring system with
  SCR4000 stationary control unit

Calibration
- Factory calibration , 50 Hz or 60 Hz
- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI222, Current Amplifier 3x
- VU221, Voltage Amplifier
- ICT123, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DLMS license (**optional on request**)
- DTS100 Mobile Computer and Scanner (**optional**)
- Watchdog (**optional**)
- Light barrier (**optional on request**)

A detailed description of the individual components can
be at www.zera.de.

Standard Meter Test System
for 20 Positions
– Advanced Communication –

Ord.No.	101655800

This predefined, standardized meter test system is suitable
for testing metrology and communication of the meter.
Using additional interfaces an advanced data
communication test of a Smart Meter is possible.

The offered system consists the following components

Number of test positions
- 20 measuring stations (2 test tables)

Mechanical part
- TK325 scanning head with
  scanning head suspension – advanced
- CA2000 Communication adapter
- Quick connecting device 60 A
- Set meter suspension and connection via free wiring

Measuring system
- STM4000 digital measuring system with
  SCR4000 stationary control unit

Calibration
- Factory calibration , 50 Hz or 60 Hz
- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI202, Current Amplifier 3x

- VU221, Voltage Amplifier
- ICT123, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DLMS license (**optional on request**)
- DTS100 Mobile Computer and Scanner (**optional**)
- Security package (**optional**)

A detailed description of the individual components can
be found at www.zera.de.

Standard Meter Test System
for 10 Positions
– Communication –

Ord.No.	101645500

This predefined, standardized meter test system is suitable
for testing metrology and communication of the meter.

The offered system consists the following components

Number of test positions
- 10 measuring stations (1 test table)

Mechanical part
- TK326 scanning head with
  scanning head suspension – standard
- CA2000 Communication adapter
- Quick connecting device 60 A
- Set meter suspension and connection via free wiring

Measuring system
- STM4000 digital measuring system with
  SCR4000 stationary control unit

Calibration
- Factory calibration , 50 Hz or 60 Hz
- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI222, Current Amplifier 3x
- VU221, Voltage Amplifier
- ICT123, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DLMS license (**optional on request**)
- DTS100 Mobile Computer and Scanner (**optional**)
- Watchdog (**optional**)

A detailed description of the individual components can
be found at www.zera.de.

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Standard Meter Test System
for 20 Positions
– Communication –

Ord.No.	101655900

This predefined, standardized meter test system is suitable for testing metrology and communication of the meter.

The offered system consists the following components

Number of test positions
  - 20 measuring stations (2 test tables)

Mechanical part
  - TK326 scanning head with
    scanning head suspension – standard
  - CA2000 Communication adapter
  - Quick connecting device 60 A
  - Set meter suspension and connection via free wiring

Measuring system
  - STM4000 digital measuring system with
    STM4000 stationary control unit

Calibration
  - Factory calibration , 50 Hz or 60 Hz
  - DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
  - EPZ303, Reference Meter
  - FG301, Frequency Generator
  - VI202, Current Amplifier 3x
  - VU221, Voltage Amplifier
  - ICT123, Isolating Current Transformer
  - PC incl. WinSAM test software and 24″ monitor.
  - DLMS license (**optional on request**)
  - DTS100 Mobile Computer and Scanner (**optional**)
  - Watchdog (**optional**)

A detailed description of the individual components can be found at www.zera.de.

Standard Meter Test System
for 10 Positions
– Metrology –

Ord.No.	101648000

This predefined, standardized meter test system is suitable for purely metrological testing if no communication of the meter is required to be tested.

The offered system consists the following components

Number of test positions
  - 10 measuring stations (1 test table)

Mechanical part
  - TK326 Scanning head with
    scanning head suspension – standard
  - Quick connecting device 60 A

Subject to change without notice.

- Set meter suspension and connection via free wiring

Measuring system
- DS421 Multi-position error calculator with
  DSA400 display module

Calibration
- Factory calibration , 50 Hz or 60 Hz
- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI222, Current Amplifier 3x
- VU221, Voltage Amplifier
- ICT130, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DTS100 Mobile Computer and Scanner (**optional**)
- Watchdog (**optional**)

A detailed description of the individual components can
be found at www.zera.de.

Standard Meter Test System
     for 20 Positions
     – Metrology –

Ord.No.	**101656000**

This predefined, standardized meter test system is suitable
for purely metrological testing if no communication of the
meter is required to be tested.

The offered system consists the following components

Number of test positions
- 20 measuring stations (2 test tables)

Mechanical part
- TK326 Scanning head with
  scanning head suspension – standard
- Quick connecting device 60 A
- Set meter suspension and connection via free wiring

Measuring system
- DS421 Multi-position error calculator with
  DSA400 display module

Calibration
- Factory calibration , 50 Hz or 60 Hz
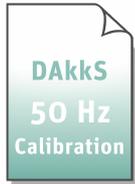- DAkkS calibration , 50 Hz or 60 Hz (**optional**)

Other components
- EPZ303, Reference Meter
- FG301, Frequency Generator
- VI202, Current Amplifier 3x
- VU221, Voltage Amplifier
- ICT130, Isolating Current Transformer
- PC incl. WinSAM test software and 24″ monitor.
- DTS100 Mobile Computer and Scanner (**optional**)

- Watchdog (**optional**)

A detailed description of the individual components can
be found at www.zera.de.

DAkkS DKD-Calibration for Instrument

DAkkS DKD-Calibration for EPZ3xx, 50 Hz
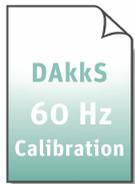incl. DKD-Calibration Certificate acc. IEC 17025
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.
Additional load points are subject to charges.

Ord.No.   **100006811**

DAkkS DKD-Calibration for EPZ3xx, 60 Hz
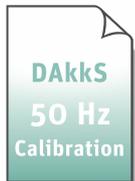incl. DKD-Calibration Certificate acc. IEC 17025
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.
Additional load points are subject to charges.

Ord.No.   **100006876**

DAkkS DKD-Calibration for ICT123, 50 Hz
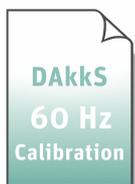
incl. DKD-Calibration Certificate acc. IEC 17025
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.
Additional load points are subject to charges.

Ord.No.   **100519633**

DAkkS DKD-Calibration for ICT123, 60 Hz

incl. DKD-Calibration Certificate acc. IEC 17025
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.
Additional load points are subject to charges.

Ord.No.   **100519686**

DAkkS DKD-Calibration for ICT130, 50 Hz
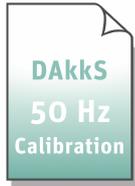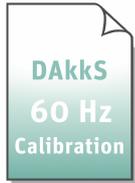incl. DKD-Calibration Certificate acc. IEC 17025
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.
Additional load points are subject to charges.

Ord.No.	101173940

DAkkS DKD-Calibration for ICT130, 60 Hz

incl. DKD-Calibration Certificate acc. IEC 17025
Load points according to ZERA regulations.
Summary of used load points
can be downloaded at www.zera.de.
Additional load points are subject to charges.

Ord.No.	101173941

Special Accessories (General)

DTS100 Mobil computer und scanner
incl. charging station (cradle)
4.7" display, color, touch function
Dimensions (HxWxD): 161 mm x 84 mm x 20.5 mm
Weight: 360 g
Input and transfer of meter-specific data
Menu-guided input area with predefined,
user-specific values (WinSam/CheckCon)
2D barcode scanner
Data transfer via WIFI or cradle
Operating system: Android
4 GB RAM, 32 GB flash memory
Lithium-ion battery, 3.6 V, 4040 mAh
>12 hours operating time

Ord.No.	101664800

Software-licence data interface DLMS
Details must be clarified before ordering

Ord.No.	100053303

Watchdog for 10 Position
Standard Meter Test System
    – Communication –

To protect the devices, the test equipment is equipped
with an active system monitoring, a so-called watchdog.

The watchdog device will be integrated into the test system

Ord.No.	101664400

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Subject to change without notice.

and starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.

The scope of delivery includes the monitoring device (Watchdog), complete wiring and set of relays for automatic shutdown of the system.

Watchdog for 20 Position Standard Meter Test System
– Communication –

Ord.No.	101664500

To protect the devices, the test equipment is equipped with an active system monitoring, a so-called watchdog.

The watchdog device will be integrated into the test system and starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.
The scope of delivery includes the monitoring device (Watchdog), complete wiring and set of relays for automatic shutdown of the system.

Watchdog for 10 Position Standard Meter Test System
– Metrology –

Ord.No.	101664600

To protect the devices, the test equipment is equipped with an active system monitoring, a so-called watchdog.

The watchdog device will be integrated into the test system and starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.
The scope of delivery includes the monitoring device (Watchdog), complete wiring and set of relays for automatic shutdown of the system.

Subject to change without notice.

Watchdog for 20 Position Standard Meter Test System – Metrology –

To protect the devices, the test equipment is equipped with an active system monitoring, a so-called watchdog.

The watchdog device will be integrated into the test system and starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop. The scope of delivery includes the monitoring device (Watchdog), complete wiring and set of relays for automatic shutdown of the system.

Set Security Package for 10 Position Standard Meter Test System – Premium Communication –

Ord.No.   101664200

To protect the operator and the devices, the test system is equipped with a **light barrier** and an active system monitoring device, so-called **watchdog**. The **light barrier** consists of a light curtain with LEDs, which is installed at the front side of the table edge. The rear side of the meter frame is protected against access by a protective panel (Plexiglas).To increase safety during the entire meter test, a **watchdog** device will be integrated into the test system. This starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.

Set Security Package for 20 Position Standard Meter Test System – Premium Communication –

Ord.No.   101664300

To protect the operator and the devices, the test system is equipped with a **light barrier** and an active system monitoring device, so-called **watchdog**. The **light barrier** consists of a light curtain with LEDs, which is installed at the front side of the table edge. The rear side of the meter frame is protected against access by a protective panel (Plexiglas).To increase safety during the entire meter test, a **watchdog** device will be integrated into the test system. This starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.

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Set Security Package for 10 Position Standard Meter Test System – Advanced Communication –

Ord.No.   **101645300**

To protect the operator and the devices, the test system is equipped with a **light barrier** and an active system monitoring device, so-called **watchdog**. The **light barrier** consists of a light curtain with LEDs, which is installed at the front side of the table edge. The rear side of the meter frame is protected against access by a protective panel (Plexiglas).To increase safety during the entire meter test, a **watchdog** device will be integrated into the test system. This starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.

Set Security Package for 20 Position Standard Meter Test System – Advanced Communication –

Ord.No.   **101645400**

To protect the operator and the devices, the test system is equipped with a **light barrier** and an active system monitoring device, so-called **watchdog**. The **light barrier** consists of a light curtain with LEDs, which is installed at the front side of the table edge. The rear side of the meter frame is protected against access by a protective panel (Plexiglas).To increase safety during the entire meter test, a **watchdog** device will be integrated into the test system. This starts a scan of the individual components of the test system at regular intervals. If the watchdog receive no feedback during its monitoring, it immediately activates the emergency stop loop.
System requirement: 2-channel emergency stop loop.

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Notes on using the product catalogue

When ordering, always state the order number.

Pictures can differ from original product.

We follow ZVEI terms of delivery, see on www.zera.de