

## Metis Intelligent Series

AutoCal+  
The Calibration Software

- ✓ **Pressure and signal measurement**
- ✓ **Modular calibration system**
- ✓ **Large color touchscreen**
- ✓ **Accuracy, up to  $\pm 0.01\%$  F.S.**
- ✓ **Easy to use**
- ✓ **Software**
- ✓ **Vacuum and pressure up to 1000 barg**



The modular platform consists of a central control module to which several measurement and control modules can be connected. The 10-inch touchscreen with multilingual user interface makes operating of all modules quick and easy. In addition, Metis fully integrates with the cloud operating Tradinco calibration software AutoCal+, enabling fast and paperless calibration.

Tradinco Instruments provides the best solution for every test, measurement and calibration challenge in the industry

Our main values are:

- ✓ Skilled specialists
- ✓ Customer focus
- ✓ Broad portfolio
- ✓ Long-term relationship

### Modular design

The Metis series fit seamlessly into our calibration testbench solutions. This multifunction platform creates an easy working environment for all necessary test and calibration activities.

### Customization

Metis stands for optimal customization. You decide which modules are connected to the Metis modular platform. When modules are connected, the user decides from which module the information is presented on the main module.

### Ease of use

Thanks to the automatic recognition and color signal indication on each module, the user can immediately see which modules are active. This avoids unexpected errors and downtime.



Metis / rev.0 08-2022

## Technical specifications main module

### General

|                       |  |
|-----------------------|--|
| Operating temperature | : between 0 and 40°C                         |
| Housing               | : 6HE/64TE                                   |
| Dimensions            | : 266,7mm x 325,1mm x 235mm HxWxD            |
| Weight                | : approx.5 kg depending on configuration     |
| Display               | : 10 inch capacitive touch                   |
| Menu language         | : NL, GB, DE                                 |
| Data visualisation    | : up to 4 modules simultaneously             |
| Programs              | : running automatic procedures and sequences |
| Logging               | : excel data logging and export              |
| Custom units          | : user defined thru gain and offset          |

### Interfaces

|                  |  |
|------------------|--|
| USB front        | : USB A to accept thumb drives for firmware update and data export |
| USB back         | : USB A multi purpose  |
| HDMI back        | : for connection of external screen (mirrored output)              |
| Private ethernet | : for connection to internal 8 channel PoE switch                  |
| Public ethernet  | : for connection to factory network                                |
| Button front     | : on/off button with status light                                  |
| Modules          | : automatic recognition and integration of measurement modules     |
| Max Modules      | : 100 Metis modules  |

### Power supply

|            |                                   |
|------------|-----------------------------------|
| Voltage    | : 110 ~ 240 VAC, 1 phase          |
| Power      | : 305 Watt Max                    |
| Frequency  | : 50 ~ 55 Hz / 60 Hz              |
| Power Plug | : Harting Han ES-6 male connector |

### Compliance

|                       |   |
|-----------------------|---|
| EMC                   | : EN 61326-1 emission (group 1, class A) and immunity |
| Low voltage directive | : EN 61010-1  |
| RoHS                  | : EN-2011/65/EU with amendment EN 50581:2012          |



## Technical specifications Metis pressure modules

|                            |  |
|----------------------------|--|
| Accuracy                   | : $\pm 0.02\%$ F.S.  |
| Operating temperature      | : between 0 and 40°C<br>All stated accuracies include linearity, hysteresis and repeatability.   |
| Operating ambient humidity | : 0 ... 95% RH non condensing  |
| Storage Temperature        | : -10 ... 50 degrees C   |
| Sensor Range               | : 25, 70, 200, 350, 700, 1000 mBar G,<br>1, 2, 3,5, 7, 10, 20, 35, 70, 100, 135, 175, 250, 300, 1000 Bar G<br>All ranges < 1 Bar G are available with negative range up to +max sensor value<br>All ranges $\Rightarrow$ 1 Bar G are available with negative range |
| Media                      | : air, nitrogen, hydraulic   |
| Permissible Overpressure   | : Pmax +10%  |
| Pressure units             | : Bar, hPa, kPa, MPa, PSI, kgf/cm <sup>2</sup> , mmH <sub>2</sub> O, cmH <sub>2</sub> O, mH <sub>2</sub> O, inH <sub>2</sub> O, ftH <sub>2</sub> O, mmHg, inHg, torr, %, mSeaw, User defined using gain and offset   |
| Pressure Control           | : pneumatic pressure control in combination with the Traqc-9 C series manual Pressure controllers.   |
| Connections                | : pressure: 1/4"npt female   |
| Power/Interface            | : RJ45 Ethernet Connection to PoE switch on Main module  |
| Button                     | : with multicolor led for status and identification purposes   |
| Housing                    | : 3HE / 18TE   |
| Dimensions weight          | : 133,3mm x 91,4mm x 235mm HxWxD   |
| Weight                     | : approx. 1,3 kg depending on configuration  |

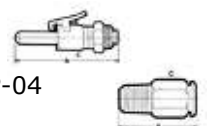
### Compliance

|                       |   |
|-----------------------|---|
| EMC                   | : EN 61326-1 emission (group 1, class A) and immunity |
| Low voltage directive | : EN 61010-1  |
| RoHS                  | : EN-2011/65/EU with amendment EN 50581:2012          |

### Options



: Low pressure polyflo parts max 10 Bar  
 Polyflo 1/4"npt male body with shut-off Model 298-PT  
 Insert without shut-off Model 294-PM  
 Polyethylene tubing for vacuum applications : Model 44-P-04  
 Flexible Polyurethane tubing : Model 8635  
 Low pressure polyflo connection set max. 10 barg.



High pressure minimes 1215 connection parts  
 1/4"npt test point (with plastic cap) model 2101-01-47.00  
 Micro bore flex hose, 150cm : model S100-AA-AA-0150  
 High pressure minimes 1215 connection set max 400 barg: model 8610



Accredited calibration certificate for pressure sensor(s), traceable to international standards.

## Technical Specifications VI-Module

|                            |  |
|----------------------------|--|
| Accuracy                   | : $\pm 0.01\%$ F.S.  |
| Operating temperature      | : between 0 and 40°C.<br>All stated accuracies include linearity, hysteresis and repeatability |
| Operating ambient humidity | : 0 ... 95% RH non condensing  |
| Storage Temperature        | : -10 ... 50 deg C   |

### Measurement

|                        |   |
|------------------------|---|
| Voltage measurement    | : -30 ÷ 30 VDC  |
| Voltage generation     | : 0 ÷ 12 VDC  |
| Current measurement    | : -24 ÷ 24 mA   |
| Current generation     | : 0 ÷ 24 mA   |
| Hart resistor          | : 249 ohm   |
| Loop supply            | : 20 VDC  |
| Electrical connections | : 4,2 mm Banana plugs   |
| Power/Interface        | : RJ45 Ethernet Connection to PoE switch on Main module       |
| Button                 | : With multi-color led for status and identification purposes |
| Housing                | : 3HE / 18TE  |
| Dimensions weight      | : 133,3mm x 91,4mm x 235mm HxWxD                              |
| Weight                 | : approx.0,8 kg   |

### Compliance

|                       |   |
|-----------------------|---|
| EMC                   | : EN 61326-1 emission (group 1, class A) and immunity |
| Low voltage directive | : EN 61010-1  |
| RoHS                  | : EN-2011/65/EU with amendment EN 50581:2012          |

|         |  |
|---------|--|
| Options | : Accredited calibration certificate for electrical ranges, traceable to international standards.<br>Set of 4mm electrical test leads. |
|---------|--|

