



# iMet-5500 Ground Check Unit

## For iMet-54 Radiosondes

### Description

The Ground Check Unit allows an operator to check the correct functioning of a radiosonde before releasing it for a sounding. The radiosonde sensors are verified against very stable reference sensors in the Ground Check Unit. These reference sensors are precisely calibrated and have very good accuracy and long term stability. The unit also provides short range wireless communication to the radiosonde. This enables the operator to select user defined radiosonde frequencies and configure other items such as radiosonde turn-off settings. A built-in GNSS re-radiator allows the radiosonde to acquire satellite position lock while indoors.

### Specification

| Reference Temperature Sensor |                           |
|------------------------------|---------------------------|
| Range                        | -40 to +125 °C            |
| Accuracy                     | ±0.2 °C                   |
| Precision                    | ±0.1 °C                   |
| Long term drift              | < 0.05 °C/year            |
| Reference Humidity Sensor    |                           |
| Range                        | 0 to 100% RH              |
| Accuracy                     | ±1.8% RH                  |
| Precision                    | ±0.2% RH                  |
| Long term drift              | < 0.5% RH/year            |
| Reference Pressure Sensor    |                           |
| Range                        | 10 to 1200 mbar           |
| Accuracy                     | ±1.5 mbar                 |
| Long term drift              | < ±1 mbar                 |
| Dimension (L x W x H)        | 330 x 60 x 50 mm          |
| Weight                       | 1.6 kg                    |
| Materials                    | Aluminium and PVC Plastic |

### Key Features

- Identifies faulty radiosondes before launch
- Easy to use
- USB connection to computer
- Integrated into D-Met Sounding Software
- Powered through USB port
- Easily replaceable reference sensors

### Interface

|                                    |                   |
|------------------------------------|-------------------|
| Power Supply                       | Via USB           |
| Electrical Interface               | USB 1.1 / USB 2.0 |
| USB cable                          | Type A to Type B  |
| Short Range Wireless Communication | 13.56MHz          |



*The InterMet Ground Check Unit is used to quickly and easily confirm correct operation of iMet-54 radiosonde sensors before use. The unit uses very stable humidity and temperature reference sensors to ensure consistency and accuracy from all iMet-54 soundings.*

*Specifications subject to change without notice*

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