



METER

TENSIOLINK



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CERTIFIED **USB**

1. INTRODUCTION

Thank you for choosing the tensioLINK from METER Group.

Prior to use, verify the tensioLINK arrived in good condition.

The tensioLINK USB Converter is used to connect sensors and devices with serial tensioLINK interface to a PC. These sensors and devices can then be configured and readings can be uploaded to a PC or online storage.

Sensors and devices with an 8-pin plug type M12 (e.g., TS1) can be connected to the converter directly ([Figure 2](#)).

The USB port provides the power supply.

The interface is controlled with the Windows software tensioVIEW. TensioVIEW software is available on the [METER website \(https://meter.ly/environment-downloads-software\)](https://meter.ly/environment-downloads-software)

Which sensors and devices can be connected?

- TEROS 06 Temperature Profile Probe
- TEROS 54 Soil Moisture Profile Probe
- BARO Module Tensiometer Air Pressure Sensor
- T8 Tensiometer (no longer available)
- TEROS 31, 32* Tensiometers
- NOTE: * M12 4-pin Version ([Figure 1](#))**
- Infield7 Handheld (no longer available)
- VS-2005 vacuum station
- HYPROP inc. adapter cable and T-piece

This requires a Windows PC with USB port (500 mA) (meter.ly/environment-downloads-software)

2. OPERATION

Please read all instructions before operating the tensioLINK to ensure it performs to its full potential.

PRECAUTION

METER sensors are built to the highest standards, but misuse, improper protection, or improper installation may damage the device and possibly void the manufacturer's warranty. Before using the tensioLINK make sure to follow the recommended installation instructions and have the proper protections in place to safeguard the device from damage.

2.1 INSTALLATION

Follow the steps listed in [Table 1](#) to set up the USB Converter and tensioLINK software.

NOTE: depending on the language of your Windows version the displayed messages might somehow be different.

Table 1 Installation

Tools Needed	Windows PC with USB port (500 mA)
Installation of tensioVIEW	<p>Download Software Go to METER website and download the tensioVIEW software (meter.ly/environment-downloads-software)</p> <p>Follow the instructions of the installation assistance.</p> <p>Connect the tensioLINK USB-converter to a suitable USB port. The message that a new hardware is available should be displayed on your desktop.</p> <p>The hardware assistance will ask, "Search for software on this PC or establish a connection to the Windows Update webpage for searching for the software?" or a similar message.</p> <ul style="list-style-type: none"> • Select "NO, not this time," • Select Continue
Installation of USB Converter	<p>In the next window select:</p> <ul style="list-style-type: none"> • "Install software automatically (recommended)" • Select Continue <p>The software should be installed now.</p> <p>NOTE: If a warning message like: "... the hardware has not passed the Windows Logo Test..." or a similar message appears, select, Continue installation.</p> <p>The driver for the USB converter should now be installed successfully.</p>

2.2 CONNECTING

To connect several sensors and devices at the same time distributor boxes are available as an accessory

If the current consumption of all connected sensors and devices exceeds the capability of the USB port, the sensors and devices need to be supplied by an external power supply. The GND of the external power supply must be connected to the GND of the USB converter.

As standard not more than 5 sensors and devices should be supplied by the USB converter at the same time.

Devices like the Infield7b or the VS-2005 have the capability to read tensioLINK sensors themselves. These devices are equipped with a female 8-pin plug. Connect them to the USB converter with the supplied "host cable" (male to male plug).

With the host cable it is possible to get linked to the tensioLINK bus directly on any free port of a distribution box. This means that sensor communication is possible without separating them from the bus and the power supply.

PLUG CONFIGURATION

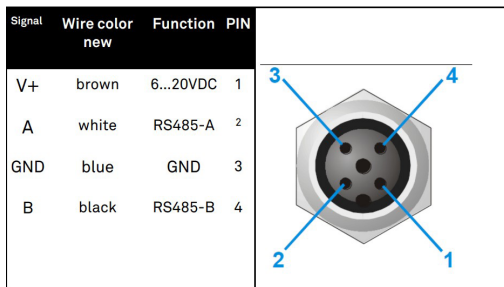


Figure 1 4-pin M12 version

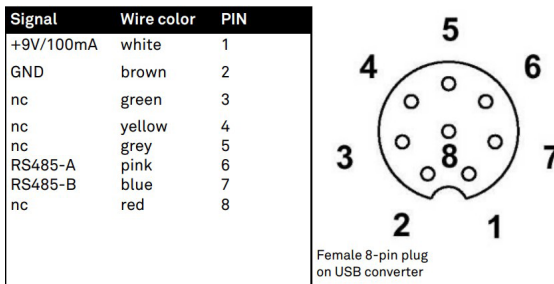


Figure 2 8-pin M12 version

3. SYSTEM

This section describes the ATMOS 41 All-in-One Weather Station system.

3.1 SPECIFICATIONS

POWER

Range	9 VDC /100mA
Tolerance	+/- 1 V
Short circuit steadiness	2 minutes
Galvanic isolation	1 kV

NOTE: tensioLINK sensors require a power supply in the range of 6V to 20 VDC..

IMPORTANT: For the maximum number of sensors and devices that can be connected at the same time consider the maximum power consumption of each device, not the average consumption!

SERIAL SENSOR INTERFACE

RS485 – 2 wire	9 VDC /100mA
ESD protection	15 kV (Human Body Model)
Galvanic isolation	1 kV

USB INTERFACE

USB 1.1 and 2.0 compatible. Only for USB ports with 500 mA maximum output current.

COMPLIANCE

Manufactured under ISO 9001:2015

EM ISO/IEC 17050:2010 (CE Mark) 

2014/30/EU

2011/65/EU

EN61326-1:2013

EN50581:2012

A full CE declaration of conformity is available on request from METER Group.

3.2 CUSTOMER SUPPORT

EUROPE

Customer service representatives are available for questions, problems, or feedback Monday through Friday, 8:00 to 17:00 Central European time.

Email: support.europe@metergroup.com
sales.europe@metergroup.com

Phone: +49 89 12 66 52 0

Fax: +49 89 12 66 52 20

Website: metergroup.com

NORTH AMERICA

Customer service representatives are available for questions, problems, or feedback Monday through Friday, 7:00 am to 5:00 pm Pacific time.

Email: support.environment@metergroup.com
sales.environment@metergroup.com

Phone: +1.509.332.5600

Fax: +1.509.332.5158

Website: metergroup.com

If contacting METER by email, please include the following information:

Name	Email address
Address	Instrument serial number
Phone	Description of the problem

NOTE: For products purchased through a distributor, please contact the distributor directly for assistance.

3.3 TERMS AND CONDITIONS

By using METER instruments and documentation, you agree to abide by the METER Group, Inc. Terms and Conditions. Please refer to metergroup.com/terms-conditions for details.

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