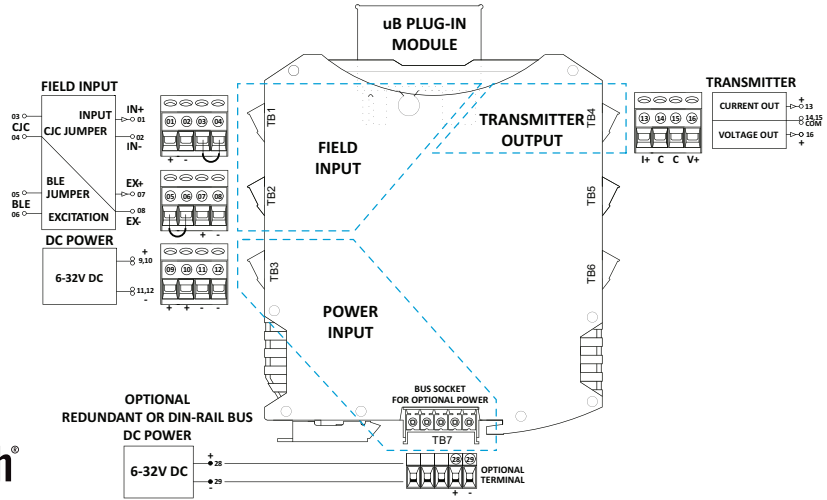


# Transmitter: microBlox® Series

uBTX-H-1 Series microBlox® Transmitter Carrier



Variety of inputs ♦ 0/4-20mA and 0/1-5V transmitter output ♦ *Bluetooth*® wireless configuration

## Description

### Models

uBTX-H-1: Transmitter

The uBTA carriers are used with Acromag's microBlox® signal conditioning modules to create powerful transmitters that provide a voltage/current output. The plug-in modules offer the convenience of wireless field programming on a smartphone or tablet.

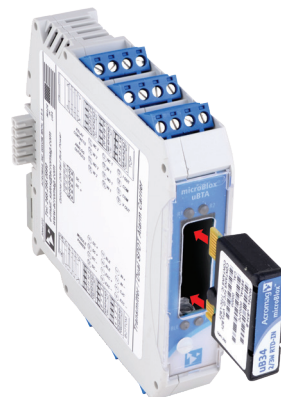
The microBlox uB modules offer a flexible space-saving solution for isolating, monitoring, and converting industrial sensor signals to interface with your data acquisition or control system. By inserting a uB input module into the carrier, you get a device with innovative transmitter capabilities. With a broad selection of uB input modules, you can monitor many different signal types by simply interchanging modules on the carrier.

Plug-in modules measure current, voltage, frequency, thermocouple, or RTD input. Carriers produce a process current and voltage output signal.

Bluetooth wireless technology enables configuration using an Android™ or iOS® mobile device. Acromag's Agility™ app helps you quickly set input/output ranges and scaling to your specific requirements.

Carriers mount on T-type DIN rails for high-density installation. They can plug together for modular expansion with a shared power connection that is bussed along the DIN rail. Redundant power sources are supported.

These rugged carriers are well-suited for use in harsh industrial environments. They have high immunity to noise, surges, shock, vibration, and extreme temperatures. Installation in hazardous locations is also supported with compliance to CE, ATEX, and UL regulations.



## Key Features & Benefits

- Transmitter output with scalable 0-20mA, 4-20mA, and 0-5V signal ranges
- Interchangeable input modules for measuring a wide variety of signal types
- Easy configuration using Bluetooth wireless technology with smartphone or tablet running Acromag Agility app for Android® and iOS®
- High-density mounting with 22.5mm package featuring pluggable, front-facing terminals
- Supports redundant power sources and clean wiring using integrated rail power bus
- Rugged design for use in harsh environments
- High accuracy transmitter output
- High noise immunity and stability
- High voltage isolation between input, output, and power
- All I/O and power ports transient-protected
- Wide -40 to 75°C operating range
- CE compliant. UL/cUL Class I Div 2, ATEX / IECEx Zone 2 approvals

ISO9001  
AS9100

**Acromag**

THE LEADER IN INDUSTRIAL I/O

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# Transmitter: microBlox® Series

## uBTX-H-1 Series microBlox® Transmitter Carrier

### Performance Specifications

#### Analog Field Input

##### Field Range

See specific plug-in uB module used.

[www.acromag.com/microBlox](http://www.acromag.com/microBlox)

#### Transmitter Output

##### Output

Simultaneous 0 to 5V / 1 to 5V,  
0 to 20mA / 4 to 20mA

#### General

##### Power

Connect 6-32V DC SELV (Safety Extra Low Voltage), up to 1.2W including module. Current draw will be dependent on carrier model, whether you utilize the transmitter outputs, your plug-in module, and your voltage level. See manual for more details.

##### Accuracy

Better than  $\pm 0.1\%$ , typical

##### DIN Rail bus connector kit

DIN rail bus connection kit allows plugging enclosures together to share power.

#### Physical

##### Dimensions

Width: 0.9" (22.5 mm)

Height: 4.51" (114.5 mm)

Depth: 3.90" (99 mm) without uB module, 4.45" (113 mm) with uB module

Weight: 0.35 lbs. (159 Kg)

Shipping weight: 1.0 lbs. (0.454 Kg)

##### I/O Connectors

Removable plug-in type terminal blocks rated for 5A/250V; AWG #26-14 stranded or solid copper wire

##### Case

Self-extinguishing polyamide, UL94 V-0 rated, color light gray. General purpose NEMA Type 1 enclosure

##### Circuit Board

Military grade fire-retardant epoxy glass per IPC-4101/98

##### DIN-Rail Mounting

T-type DIN rails

#### Environmental

##### Operating Temperature

-40 to 75°C (-40° to 158°F)

##### Storage Temperature

-40 to 85°C (-40° to 185°F)

##### Relative Humidity

0 to 95% non-condensing

##### Emissions

Class A product with emissions per BS EN 61000-6-4

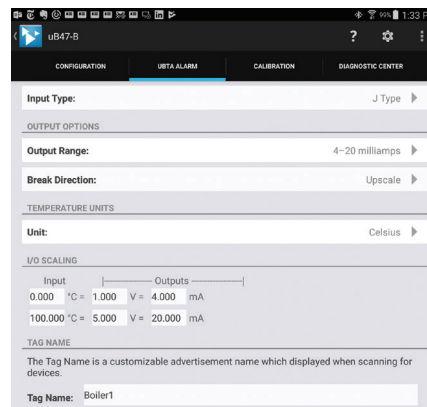
##### Approvals

CE compliant. Designed for UL/cUL Class I Division 2 Groups ABCD, ATEX / IECEx Zone 2

#### Configuration using Agility™ Config. Tool via Bluetooth technology

The Acromag Agility™ configuration tool is a mobile application that allows easy setup, calibration, and reconfiguration of microBlox I/O modules.

This mobile app. supports smart devices with Android 4.3 or later or iOS 5.0 or later. You can download the Agility application free of charge from the Google Play™ store at [play.google.com](http://play.google.com) (Android), or the Apple® App Store® at [itunes.apple.com](http://itunes.apple.com) (Apple iOS).



### Ordering Information

#### uBTX-H-1

Single transmitter in housing

#### Accessories

##### XT BUS-KIT

DIN rail bus connector to power kit

##### DIN Rail 3.0

DIN Rail Strip, Type T, 3 inches

##### DIN Rail 16.7

DIN Rail Strip, Type T, 16.7 inches

#### Plug-In Analog Field Input Modules

##### uB30-B

DC millivolt input, 5Hz bandwidth;  
Configurable  $\pm 100\text{mV}$

##### uB40-B

DC millivolt input, 1kHz bandwidth;  
Configurable  $\pm 100\text{mV}$

##### uB31-B

DC voltage input, 4Hz bandwidth;  
Configurable  $\pm 1$  to  $\pm 60\text{V}$

##### uB41-B

DC voltage input, 1kHz bandwidth;  
Configurable  $\pm 1$  to  $\pm 60\text{V}$

##### uB32-B

DC current input;  
Configurable 0-20mA

##### uB42-B

DC current input with 2-wire transmitter loop  
excitation; Configurable 0-20mA

##### uB34-B

Pt RTD input, 2 or 3-wire;  
Configurable 0-600°C

##### uB35-B

Pt RTD input, 4-wire;  
Configurable 0-600°C

##### uB37-B

Thermocouple input, non-linearized;  
Configurable Type J,K,T,R,E,S

##### uB47-B

Thermocouple input, linearized;  
Configurable Type J,K,T,R,E,S

See [Acromag.com/microBlox](http://Acromag.com/microBlox) for more information

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