B-TEK HRB High Resolution Base Setup Instruction Manual

B-TEK HRB High Resolution Base Setup

Contents

CONFIGURATION

Under System Configuration: Change active scales to 2.

Under Scale Configuration: Ensure mode is HRB and the #2 scale settings are correct.

Scale Configuration

Show Only Configured: ☐

Scales
#1
#2

Scale 2

Mode:	HRB
Name:	

Scale

Capacity:	70	lb
Division:	0.001	lb

Stability

Divisions:	3	
Time:	1	seconds

AZT

Divisions:	1	
Time:	1	seconds

Filter

Averages:	10	
Constant:	1	
Threshold:	0.1	lb

2 - 3 Range

Type:	Multi-Interval	
Capacity 1:	0	lb
Division 1:	0.000001	lb
Capacity 2:	0	lb
Division 2:	0.000001	lb

Ranges

Zero Range:	100	%
Gross Zero Band:	10	Division
Basis:	Percent	
Overload:	105	%
Underload:	20	%
Power Up Zero:	0	%

Units

	Cal Unit:	lb		
			Ratio	Name
Unit1:	lb		1	lb
Unit2:	kg		0.45359	kg

Custom Units

	Ratio	Name
Custom 1:	1	Cust1

Serial Port Configuration: Should show serial port 1 is disabled for the HRB base as shown in the image below.

Serial Port Configuration

Serial Ports
#1
#2

Serial Port 1

Name	
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

Scale 2's Mode is HRB therefor Port 1 is Disabled for HRB use.

Wiring the HRB scale base.

⚠ **WARNING:** The scale connection is an RS232 port only, Do not plug the base into an Ethernet port as this may damage file Ethernet hub.

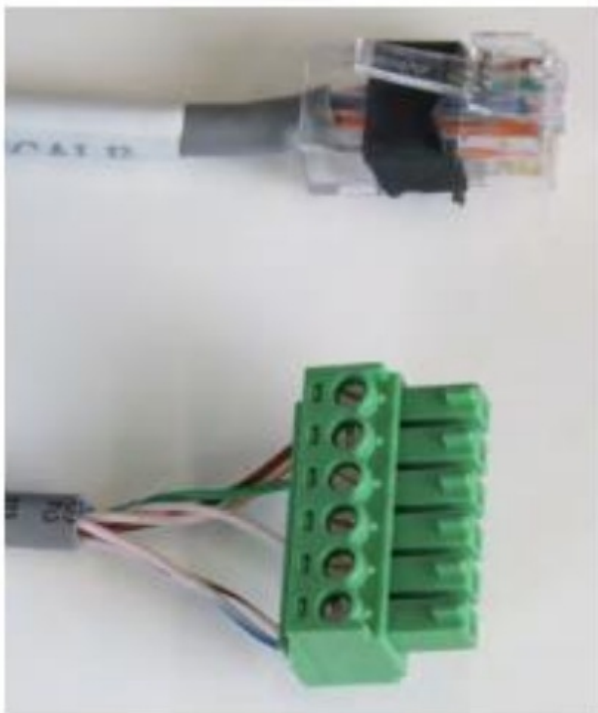**Note: The scale base is powered by the indicator RS232 port.**

The HRB scale base must be linked to a T405 or T419 indicator only. It utilizes one of the indicators dedicated RS-232 ports to correctly communicate with the base. If multiple HRB scale bases are implemented, each must use its own RS-232 port.

(B-TEK Part# 825-300032) RS232 Base to indicator cable (keyed RJ45 to pig tailed end) 10ft.

(B-TEK Part# 825-300033) RS232 Base to indicator cable (keyed RJ45 to pig tailed end) 25ft.
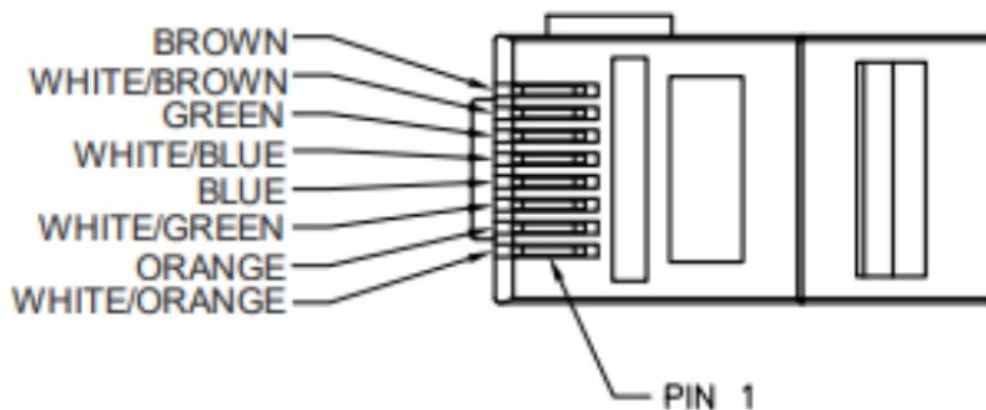
(B-TEK Part# 825-300034) RS232 Base to indicator cable (keyed RJ45 to pig tailed end) 50ft.

These cables have the correct keyed RJ45 connector. Pictured below are the cable ends for the connection to the HRB and T series indicator.

The table indicates connections to TB3 for Serial Port 1. If using Serial Port 2, then use pin TB3-3 for RX_Base and pin TB3-5 for TX_BASE.

Keyed RJ45 Connector (RS232 comm. only)

RJ45 Connector	Color	Termination	function
Pin 1	WHITE/ORANGE	TB3-1	GROUND
Pin 8	BROWN	TB3-1	GROUND
Pin 6	GREEN	TB3-2	RX – BASE
Pin 3	WHITE/GREEN	TB3-4	TX- BASE
Pin 7	WHITE/BROWN	TB3-6	+-5V
Pin 5	WHITE/BLUE	TB3-6	+-5V

Documents / Resources

B-TEK HRB High Resolution Base Setup [pdf] Instruction Manual
T405, T419, HRB High Resolution Base Setup, HRB, High Resolution Base Setup