FCC ID: M5ZP6HWSO

Installation and Operation Instructions for the Setpoint Override Temperature transmitter HWSO .

Point Six Wireless

Wireless Setpoint Override Temperature Model HWSO

Installation and Operation Instructions

Description

The HWSO wireless module has a battery life of >8years. The pushbutton on the sensor has the following function:

Set/reset Override: Briefly press and hold until LED starts to flash or stops flashing.

This model may be configured as a, temperature sensor with or without override and setpoint.
The specific function is determined at the time of manufacture and is not alterable by the user

To start operation inset two 3.6 Volt Lithium AA cell. The LED will flash when override is activated.

Packet Description

“MultiAnalog” (75/76)

IDSSSSSSSSnnrraaaaAAAACCCCKK<CR>

Note: All fields are in ASCII Hex

“ID”
The device type field: MultiAnalog has device type **76** hex. A **75** hex when in service mode.

“SSSSSSSS”
The MS-30 bits of these 4-bytes are the serial number of the MultiAnalog device. The LS-2 bits are set to zero.

“nn”
The number of I/O points (1 byte field: 1 or 2).

“rr”
This 1 byte field is not used and contains generic 00 data.

“aaaa”
This is the first analog data field and is populated when the number of I/O points is 2. This field is signed 16 bits stored MSB first (bits 15-8) and LSB last (bits 7-0) from left to right. This field has a possible range of –32768 to 32767. This is a general purpose field and may contain 8 bit or 12 bit data.

“AAAA”
This is the first analog data field and always exists. This field is signed 16 bits stored MSB first (bits 15-8) and LSB last (bits 7-0) from left to right. This field has a possible range of –32768 to 32767. This is a general purpose field and may contain 8 bit or 12 bit data.

“CCCC”
This field is the CRC-16 error check as was originally received and checked. This CRC is over the first 11 bytes of the packet starting with the device type and ending with but not including CRC-16.

“KK”
This field is the mod 256 sum of all the binary data values as represented by the ASCII hex values in the response but does not include the <CR>.

1 Channel Example:
766035501C0100052708104CBEC6
SN = 6035501CH ; No of I/O = 01H; Channel1 = 0810H = 6.3%; CRC16 =44CBEH; C6 - Checksum

Packet Description

“CountAnalog” (74/73)

IDSSSSSSSSooooootttttLLCCCCKK<CR>

Note: All fields are in ASCII Hex

“ID”

The device type field: Counter-Analog-Status has **device type 73 hex**. A 74 hex when in service mode.

“SSSSSSSS”

The MS-30 bits of these 4-bytes are the **serial number** of the Counter-Analog transmitter. The LS-2 bits are the status flags for the switch input status. The LS bit (bit-0) is the **Open status** flag and the next most significant bit (bit-1) is the **Closed status** flag.

“oooooo”

This 24-bit field is the **counter value** stored LS-byte first. Count of switch openings.

“tttt”

This field is signed 16 bits stored MSB first (bits 15-8) and LSB last (bits 7-0) from left to right. This field has a possible range of –32768 to 32767. This is a general purpose field and may contain 8 bit or 12 bit data.

“LL”

This field is **unused** and will always read zero.

“CCCC”

This field is the CRC-16 error check as was originally received and checked. This CRC is over the first 11 bytes of the packet starting with the device type and ending with but not including CRC-16.

“KK”

This field is the mod 256 sum of all the binary data values as represented by the ASCII hex values in the response but does not include the <CR>.

Packet Description

“Humidity2” (51/52)

IDSSSSSSSSnnrrhhhhttttCCCCKK<CR>

Note: All fields are in ASCII Hex

“ID”
The device type field: Humidity2 has device type **52** hex. A **51** hex when in service mode.

“SSSSSSSS”
The MS-30 bits of these 4-bytes are the serial number of the Humidity2 device. The LS-2 bits are set to zero.

“nn”
Always “00”.

“rr”
This 1 byte field is not used and contains generic 00 data.

“hhhh”
This is the humidity data field. This field is 16 bits stored MSB first (bits 15-8) and LSB last (bits 7-0) from left to right. This field has a possible range of 0 to 4095 where 0 is 0 %R and 4095 is 100 %RH

“tttt”
This is the temperature data field. This field is 16 bits stored MSB first (bits 15-8) and LSB last (bits 7-0) from left to right. This field has a possible range of 0 to 4095 where 0 is –40 degC and 4095 is 80 degC.

“CCCC”
This field is the CRC-16 error check as was originally received and checked. This CRC is over the first 11 bytes of the packet starting with the device type and ending with but not including CRC-16.

“KK”
This field is the mod 256 sum of all the binary data values as represented by the ASCII hex values in the response but does not include the <CR>.

Example:
5260357004020006250852 49D1FC
SN = 60357004H ; Humidity = 0625H = 38.4%RH ; Temp = 0852H – 22.4 degC; CRC16 =49D1H; FC - Checksum

5160357004020006 0A084CF7540B

FCC ID: M5ZP6HWSO
MADE IN USA

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.