

OnWatch GasStick™ 76

Instruction Manual

Basics

The OnWatch® GasStick™ 76 can be used on a number of Honeywell gas controls. As a general rule, any Honeywell gas equipment labeled “EnviraCOM™ enabled” is compatible.

New EnviraCOM™ enabled equipment is being introduced. It has a 3-pin data port. At this time the GasStick™ 76 can be used on the following equipment:

GAS CONTROL MODULES

S86XX product family

S92XX product family

S93XX product family

As stated, new Honeywell controls are planned to have data ports

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IMPORTANT: Some reports are circulating that when used on gas systems, displayed microamp readings are incorrect. **This is not true.** Honeywell has changed certain characteristics of its new gas controls and the GasStick™ 76 will accurately report the microampere value. The GasStick™ 76 does not measure the value which might be much higher than expected. Some of these controls can operate higher than 50 microamps.

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Instructions

NOMENCLATURE. Text in brackets indicates what is shown on the GasStick™ 76 display. For example, a microamp reading of 6.45 would appear as [06.45], with the arrow on the right edge of the display pointing to MICRO A.

OPERATION. Simply plug the GasStick™ 76 into the data port of any compatible Honeywell product. The LCD display will light up showing four bars [----] while it performs its self-test.

Next the display will show the software version of the device, such as [v 2.01].

After a few seconds, the GasStick™ 76 will display [SCAN] as it establishes communication with the gas control to retrieve the most recent error (alarm) codes that are stored in memory. They are identified as [H-01] (the oldest) through [H-10] (the most recent). Note that the arrow on the right edge points to ALARM. The codes give you a history of previous failures of the system.

Next the GasStick™ 76 will start a loop displaying present microamps and the voltage on the 24 volt board. It may take one complete loop before the EnviraCOM™ device has transmitted data.

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IMPORTANT

MICROAMPERE READINGS. On gas equipment, the microampere readings shown by the GasStick™ 76 may be different than what is customarily seen with a meter on other gas equipment. The Honeywell gas modules will often operate in the 10-18 microampere range. This is normal. The GasStick™ 76 is not a meter. It only asks the gas module what it sees for microamperes at that time. On some industrial equipment, it may not be unusual to see microamp readings higher than 50.

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INTERCONNECTED EQUIPMENT. If two or more gas EnviraCOM™ devices are interconnected on a bus (see definition of “bus” below), the information from all devices will be available from any data port. For accurate readings, only one device may be powered while the GasStick™ 76 is plugged in.

AUTO-SHUTDOWN. In order not to overload the EnviraCOM™ bus with messages, the GasStick™ 76 will shutdown automatically after 15 minutes. To restart, simply unplug and plug it back in.

NEW ENVIRACOM™ ALARM (ERROR) CODES. If there is an EnviraCOM™ alarm message while the system is operating, it will be shown on the display with an “E” followed by a 3-digit number, such as [E034] and the arrow to the right will be flashing as it points to ALARM. For a complete set of Honeywell EnviraCOM™ Alarm Codes, see the Publications Center on this website.

[E999] This code can indicate several things:

- 1) two or more devices on an EnviraCOM™ bus sending messages simultaneously;
- 2) some type of conflict in memory; or
- 3) an error out of range.

Other than for the #1 situation, above, the next query (rotation) the issue should resolve itself.

Similar Equipment on the Same Bus

If two gas burners are connected on the same EnviraCOM™ bus (see definition of “bus” below), they will both transmit similar data, such as microamperes. As a result, you will not know which device is sending the microamps reading. Therefore, if there are multiple burners interconnected on the same EnviraCOM™ bus, power-down the others. Only one can be powered at a time.

Definitions

EnviraCOM™: EnviraCOM™ is a trademarked name of Honeywell International for its communication system used on environmental control equipment. There may be other Honeywell equipment that performs similarly that is not EnviraCOM™-compliant. Be sure to check the specifications.

Bus: A “bus” is a connection path between related components. In the case of EnviraCOM™ systems, there are three wires which can run between components. It allows them to talk to one another. Conveniently it also allows communication devices such as the GasStick™ 76 to obtain data from all the connected components.

Maintenance

No maintenance is needed for the OnWatch GasStick™ 76. There are no batteries as it is powered by the EnviraCOM™ bus.

Customer Support

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