TTA-1H UNIVERSAL HEAT DETECTOR TESTER

APPLICATION

The HOCHIKI America TTA-1H can be used to test any make of *self-restoring* heat detector and/or *self-restoring* heat/smoke detector. This unit is ideal for maintenance companies who require a compact lightweight portable unit that operates without main power. No flame is used and application time is kept to a minimum, therefore this unit is well suited to sensitive areas where excessive heat could cause damage. The unique ceramic heater head heats instantly and provides up to 200 test applications per overnight recharge from the compact battery pack.

OPERATION

A quick response ceramic heater is housed in the compact head with built in circulation fan. The head is mounted on a swivel joint which allows the heat detector to be covered from almost any angle. Rubber contact points protect the heat sensor, yet allow good contact for rapid testing. Power is applied by a simple switch which is in-line between the pole and battery pack, an LED mounted on the bottom of the head illuminates when switched on. The three section pole can be extended by using the simple friction locks which are twisted to lock and unlock.

The battery pack can be fitted onto a belt using the clip or shoulder mounted using the strap. The battery pack can be recharged overnight by using the charger supplied. The battery pack is protected by a 10 A circuit breaker mounted on the front of the unit which can be manually reset if required.

A special plate is supplied which can be placed to the heater head to provide a simple calibration check for the tester. Once placed, if in calibration, the number 70 (representing 70°C or 158°F) becomes visible on the plate within 20 seconds of being switched on.

SPECIFICATIONS

Tester Pole & Heater

Operating Voltage	12VDC
Current Consumption:	
Normal Operation	4A
Maximum Surge	14A (2 sec typical)
Heater Temperature	392° F (maximum)
Extension Pole	3 Sections Minimum: 3.6' Maximum: 8.8'
Weight & Dimensions	
Head	15.87 oz • 4.33" D X 6.10" H
Pole	2.15 lbs. • 1.38" D

Battery Pack

Battery Type & Capacity	NICAD 12 V 2.8 Ah
Life	500 charges (minimum)
Charging Time	10-12 hours (typical)
Number of detector tests per charge:	
	200 max (5 sec On-60 sec off)
	150 max (10 sec On-60 sec off)
Weight & Dimensions	
	2.2 lbs • 8.03"L X 2.99"W X 2.17"D
Charger	12 VDC 350 mA

PRODUCT PARTS

- Tester & Adjustable Pole
- Battery Pack • Battery Charger
- Carrying Case

Hochiki America Corporation
7051 Village Drive, Suite 100 Buena Park, CA 90621-2268
Phone: 714/522-2246 Fax: 714/522-2268
Technical Support: 800/845-6692 or technicalsupport@hochiki.com

Find latest revision at **www.hochiki.com**

ISO 9001:2000 REGISTERED

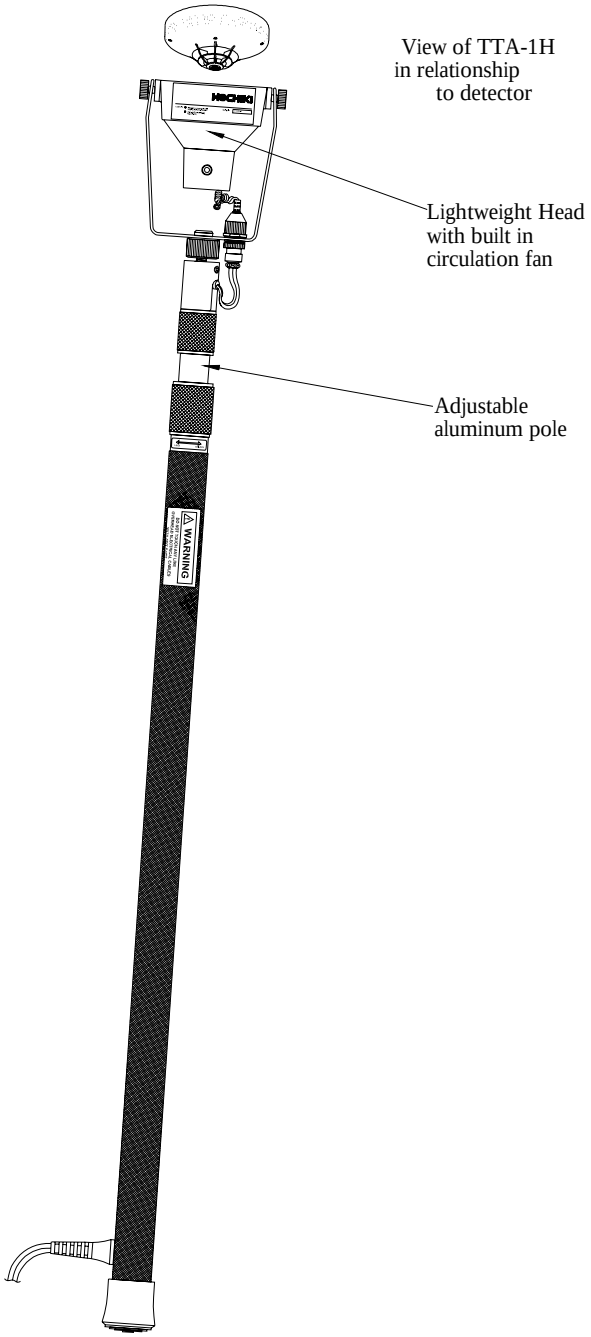
12/2003

TESTING A HEAT DETECTOR

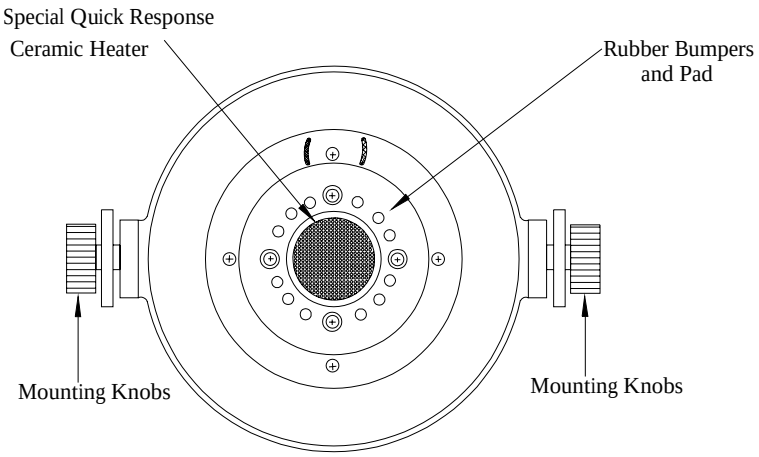
This section explains how to use the TTA-1H to test smoke detectors.

1. Connect 12Volt plug from the TTA-1H into the battery pack.
2. Raise the extended head of the TTA-1H up to the the detector, and slip the head over the detector.
3. Rotate the TTA-1H until it is snug over the device.
4. Slide the power switch located at the bottom of the pole to the on position. The detector should alarm between 5 and 15 seconds.
5. Once the detector has alarmed remove the TTA-1H and slide the power switch to the off position.
6. Testing is now complete for that detector.
7. For added details refer to operation manual.

SELF RESTORING HEAT DETECTOR



Top view of TTA-1H head



WARNING:
DO NOT USE THIS DEVICE ON NON-RESTORABLE HEAT SENSORS OR DETECTORS.

PART#	DESCRIPTION	CONTENTS
0700-01370	TTA-1H HEAT DETECTOR TESTER COMPLETE KIT	HEAD, POLE, CARRYING CASE, BATTER PACK, CHARGER
0700-01280	TTA-1HC HEAT DETECTOR TESTER W/CARRY CASE	HEAT, POLE, CARRYING CASE
0700-01290	TTA-1BP BATTERY PACK	BATTERY PACK
0700-01300	CHARGER FOR TTA-1BP	BATTERY CHARGER
0700-01310	CARRYING CASE FOR TTA-1H	CARRYING CASE

TTA-1H OPERATION INSTRUCTIONS

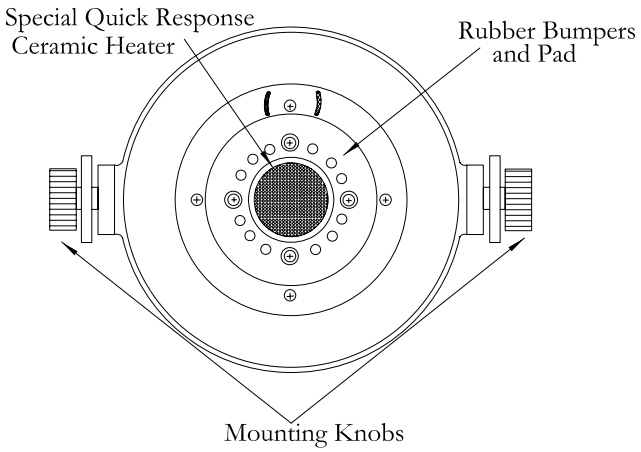
The TTA-1H Heat Detector Tester

The TTA-1HC is a state of the art heat detector tester. It is the most advanced heat testing device of its kind. It is the result of intense research and development aimed at making the job of testing self restoring heat devices a simple and efficient operation.

Features

- Quick response ceramic heater element.
- Built in circulation fan for even distribution of heat.
- Swivel mounted head for easy access to heat detector.
- Rubber contact points to protect the heat detector, yet allowing good contact for rapid testing.
- Inline switch between test pole and battery pack adding to the simple and easy operation.
- Power indicating LED on bottom of test head.
- Three section pole with friction power locks.
- Use of portable battery pack with belt mount.
- Optional use shoulder strap for battery pack.
- Battery pack protected by a 10A circuit breaker.
- Special calibration plate provided so as to perform a quick periodic calibration check.

Top View Of TTA-1H Head



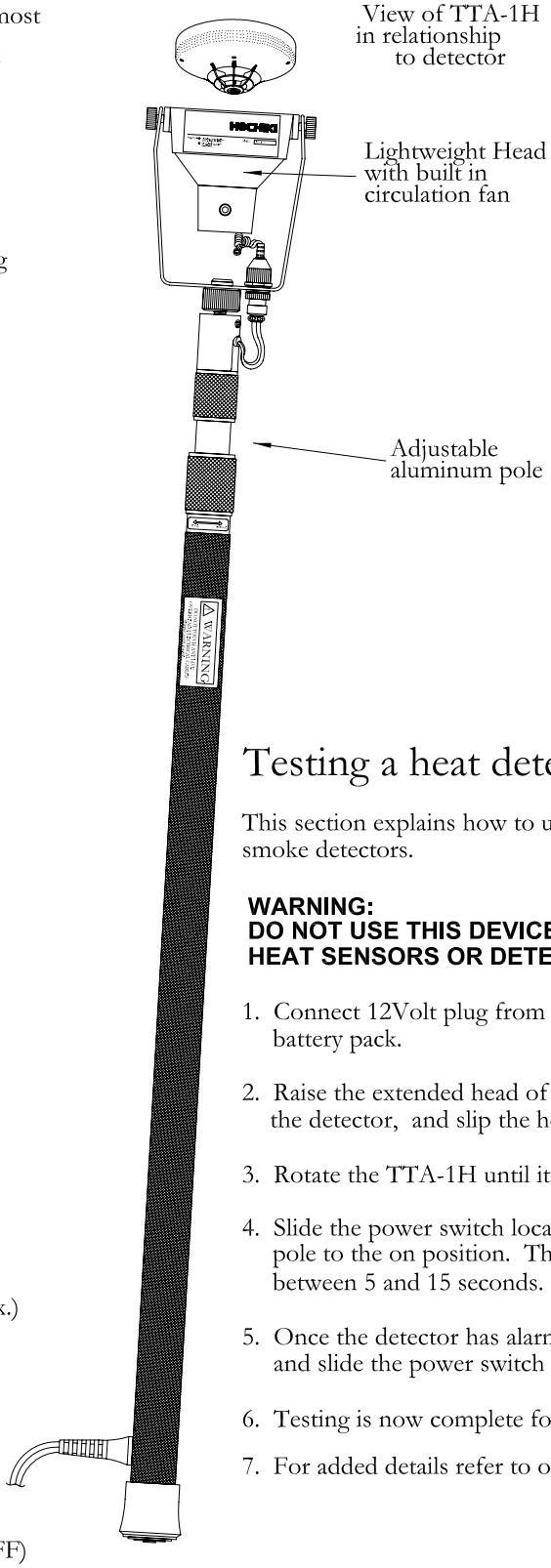
Specifications Tester and Pole

Operating Voltage	12 VDC
Current Consumption	
Normal Operation	4 amps
Maximum Surge	14 amps (2sec. typical)
Heater Temperature	380°F (maximum)
Pole extension	3 sections 3.6ft.(min.) 8.8ft.(max.)
Weight	Head 15.87oz.
	Pole 2.15 lbs.
Dimensions	Head 4.33in.D X 6.10in.H
	Pole 1.38in.D

Battery Pack

Battery type	NICAD 12V. 2.8Ah
Life	500 charges (minimum)
Number of detectors tested	200 max. (5sec. ON - 60sec. OFF)
per charge	150 max. (10sec. ON - 60sec. OFF)
Weight	2.2 lbs.
Dimensions	8.03in.L X 2.99in.W X 2.17D
Charger	12VDC 350mA

DCD-135/190



Testing a heat detector

This section explains how to use the TTA-1H to test smoke detectors.

WARNING:
DO NOT USE THIS DEVICE ON NON-RESTORABLE HEAT SENSORS OR DETECTORS.

1. Connect 12Volt plug from the TTA-1H into the battery pack.
2. Raise the extended head of the TTA-1H up to the the detector, and slip the head over the detector.
3. Rotate the TTA-1H until it is snug over the device.
4. Slide the power switch located at the bottom of the pole to the on position. The detector should alarm between 5 and 15 seconds.
5. Once the detector has alarmed remove the TTA-1H and slide the power switch to the off position.
6. Testing is now complete for that detector.
7. For added details refer to operation manual.

HOCHIKI AMERICA CORPORATION
7051 VILLAGE DRIVE, SUITE 100
BUENA PARK, CA 90621-2268