

[METRIC]
A-A-1453B
APRIL 10, 1992
SUPERSEDING
A-A-1453A
MARCH 30, 1989

COMMERCIAL ITEM DESCRIPTION

STOPWATCH, DIGITAL, ELECTRIC

The General Services Administration has authorized the use of this commercial item description.

This description covers electric digital stopwatches. They shall be furnished in the following types, as specified:

- Type I - Time-out mode timing: In this mode there shall be two separate controls, one shall control start/stop, the other shall control reset.
- Type II - Split mode timing: In this mode control shall freeze the display, giving the split time, while allowing the timing to continue. The start/stop and reset controls shall be separate.

Salient characteristics.

General. Any metals used shall be corrosion-resistant or treated to resist any type of corrosion, consistent with their normal functioning. The stopwatch shall be water-resistant and of appropriate size and weight for hand-held use.

Power. The stopwatch shall be powered by one (1) or (2) commercially available batteries. Power drain shall be such that the stopwatch will maintain timing accuracy for at least (1) full year of normal use.

Time display. The time display shall be a digital liquid (LCD) display reading minutes, seconds and 1/100th seconds from a minimum of 30 minutes, to a maximum of 59 minutes, 59.99 seconds; and equipped with automatic rollover.

Accuracy. The stopwatch shall be accurate to within 0.003 percent at 25 degrees C. Temperature drift shall be no more than 0.005 percent between -10 and +50 degrees C.

Conformance. The materials used shall be of sufficient quality, strength, durability to ensure accuracy and reliability for at least five (5) years of normal use.

Workmanship. All parts shall be fabricated and finished in accordance with good workmanship practices and shall be free of any defects which might affect its durability, appearance or durability.

DISTRIBUTION STATEMENT A: Approved for
public release; distribution is unlimited.

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Testing. The stopwatch shall be tested for accuracy following exposure to low and high temperature extremes of -10 ± 0.05 and $+50 \pm 0.25$ degrees C. respectively for the duration of two hours each cycle.

Following the high temperature exposure cycle, the watch shall undergo a 6 hour (minimum) period at room temperature prior to testing for accuracy.

QUALITY ASSURANCE PROVISIONS.

Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein.

Sampling for inspection and tests. Shall be in accordance with MIL-STD-105. Inspection level II, AQL 4.0 percent defective for external and level S-3, AQL 2.5 percent defective for internal inspection. Inspection level S-3, AQL shall not exceed 1.0 percent defective for testing. For purposes of sampling a lot shall consist of all stopwatches manufactured under the same conditions at essentially the same time.

Regulatory requirements. In accordance with section 23.403 of the Federal Acquisition Regulations, the Government's policy is to acquire items composed of the highest percentage of recovered material practicable, consistent with maintaining a satisfactory level of competition without adversely affecting performance requirements or exposing supplier's employees to undue hazards from the recovered materials.

Preservation, packing, packaging, labeling and marking. The preservation, packaging, packing, labeling and marking shall be as specified in the contract or purchase order.

Copies of MIL-STD-105 may be obtained by mail from DODSSP, Standardization Document Order Desk, 700 Robbins Ave., Philadelphia, PA 19111-5094.

Note: Purchaser shall specify either:

Type I - NSN 6645-01-106-4302

Type II- NSN 6645-01-106-4303

MILITARY ACTIVITIES:

No Interest

PREPARING ACTIVITY:

GSA - FSS