

Talking ESD Control

A publication of ESD SYSTEMS.com • 19 Brigham St. Unit #9, Marlboro, MA 01752 USA • Issue 14 Summer 2001

A King's Ransom in Dual-Wire Wrist Straps



Lifecycle Costs for ESD Systems.com Continuous Monitors Are Only 25% of Dual Wire Continuous Monitors



You have to admire a clever marketing scheme where the buyer of a constant monitor is locked into repeatedly buying fragile and very expensive dual-wire wrist straps. In contrast, we manufacture continuous monitors and wrist straps that will provide

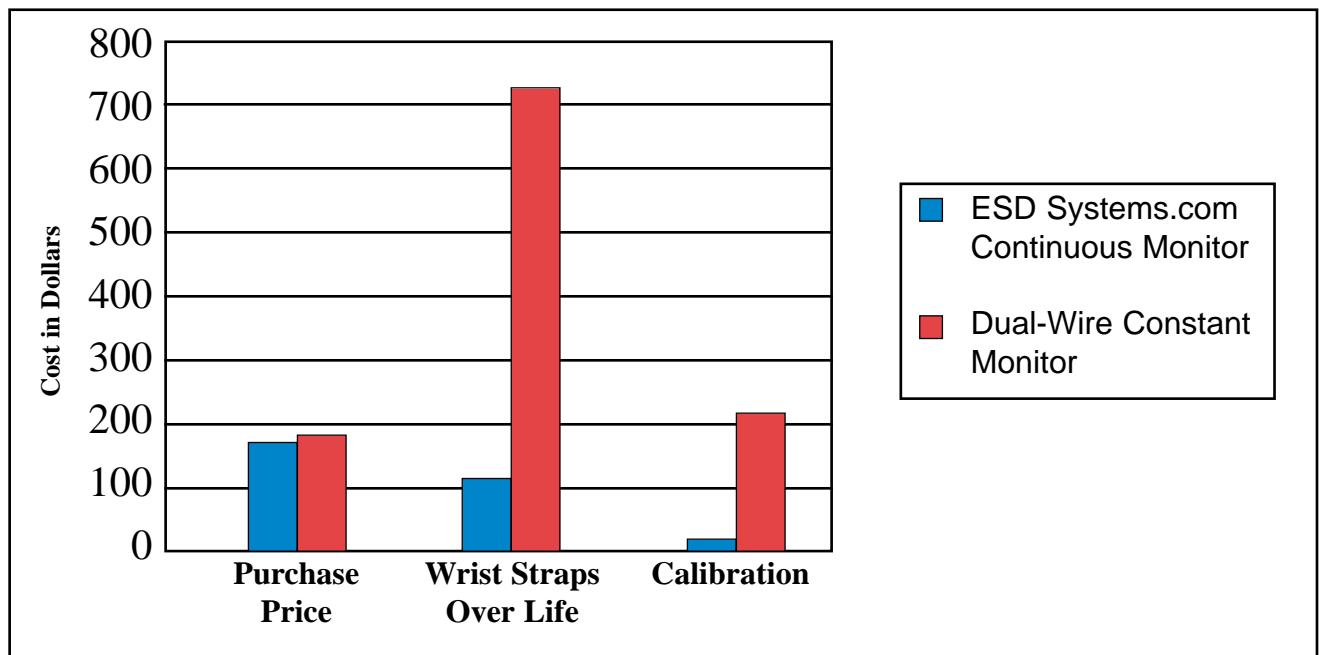
much lower costs during their useful life. Consider over five years the life cycle costs including monitor purchase, replacement of wrist straps, and calibration: **ESD Systems.com Continuous Monitors are only 1/4 the Life-Cycle Cost of Dual-Wire Constant Monitors.**

This is true because our premium single wire wrist straps are much more durable than dual-wire wrist straps. For example, our new Jewel™ Wrist Strap comes with a 5-year limited warranty.

Freedom from Expensive Dual-Wire Monitors

If you currently own costly dual wire monitors and are stuck buying fragile and very expensive dual wire wrist straps, we now have a way out for you! Trade in your Dual Wire monitors by December 31, 2001 and we will credit you \$25-\$50 towards the purchase of ESD Systems.com Continuous Monitors.

See www.esdsystems.com/index.asp?ref=tradein for details or call (508) 485-7390.



Lifecycle costs for ESD Systems.com Continuous Monitors are only 25% of dual wire continuous monitors.



ESD Workstation Pouch

The ESD Workstation Pouch is a perfect protective packaging for ESD items requiring field service work. It is a low charging, dissipative pouch that provides shielding to meet the ANSI/ESD S20.20 requirement. The Workstation Pouch's most unique feature is that it opens up to be an ESD workspace that includes provision to ground operator and workspace, and it can be used as a return shipping carton. It provides RFI protection and meets the performance specification of MIL-PRF-81705D Type II. The fold-over flaps on the ESD Workstation Pouch provide easy access to store or remove ESD items. Every Pouch is printed with the ESD protective symbol, manufacturer's name, and is lot coded for traceability. The ESD Workstation Pouch has an RTG of 10^{10} ohms and an RTT of 10^{11} ohms.



| Item | Description* | 1-24 | 25-49 | 50+ |
|--------------|------------------|--------|--------|--------|
| 18580 | Pouch, 6" x 8" | \$5.50 | \$5.12 | \$4.73 |
| 18581 | Pouch, 8" x 10" | 6.20 | 5.77 | 5.33 |
| 18582 | Pouch, 10" x 13" | 7.95 | 7.39 | 6.84 |
| 18583 | Pouch, 15" x 7" | 7.00 | 6.51 | 6.02 |

* Sizes shown are the size of the product that will fit inside the pouch.

Statshield® Premium Smocks

Single Most Powerful Step to ESD Control



Synthetic worker clothing is typically high charging material which as an insulator or non-conductor, and by definition, cannot be grounded. Per ANSI/ESD S20.20 Paragraph 6.2.3.2 Protected Areas Guidance "All process essential insulators that have electrostatic fields that exceed 2,000 volts should be kept at a minimum distance of 12 inches from ESDS items." Non-process insulators, such as clothing, need to be controlled in ESD protected areas (Ref: ANSI/ESD S20.20).

JACKETS WITH CUFFS

(Eliminates the need for separate wristband)

| Size | Blue | White | Teal | 1-24 | 25-99 | 100+ |
|----------|--------------|--------------|--------------|---------|---------|---------|
| X Small | 16910 | 16930 | 16950 | \$36.05 | \$34.25 | \$32.45 |
| Small | 16911 | 16931 | 16951 | 36.05 | 34.25 | 32.45 |
| Medium | 16912 | 16932 | 16952 | 36.05 | 34.25 | 32.45 |
| Large | 16913 | 16933 | 16953 | 36.05 | 34.25 | 32.45 |
| X Large | 16914 | 16934 | 16954 | 36.05 | 34.25 | 32.45 |
| 2X Large | 16915 | 16935 | 16955 | 39.00 | 37.05 | 35.10 |
| 3X Large | 16916 | 16936 | 16956 | 41.65 | 39.57 | 37.49 |
| 4X Large | 16917 | 16937 | 16957 | 44.55 | 42.32 | 40.10 |
| 5X Large | 16918 | 16938 | 16958 | 47.70 | 45.32 | 42.93 |
| 6X Large | 16919 | 16939 | 16959 | 51.15 | 48.59 | 46.04 |



To help with ESD control, we offer our Statshield® Premium Smocks. They feature a patented "Hip-to-Cuff" grounding that allows for hands-free grounding. These smocks are made of anti-static, low charging fabric. They create a Faraday Cage effect, shielding static charges generated from clothing on the user's body.

For more Information on usage, download Tech Brief PS-2048:

<http://esdstore.esdsystems.com/pdf/ps-2048.pdf>

Why Choose New Metal In Premium ESD Bags from ESD Systems.com?



Superior Cleanliness

NVR: 1.0cm^2 **Ionics:** 10 ng/cm^2 **Outgas:** 500 PPM

New Statshield® Metal In Premium ESD Bags from ESD Systems.com are manufactured with a low anion content. They do not contain the topically treated antistats that cause high anionic contamination, specifically Nitrates (NO₃) and Chlorides (Cl). This Premium film is made from an extrusion lamination process with no solvents used that could later outgas. Contamination is an increasing concern as circuits on boards are now using silver based alloys which corrode faster when exposed to levels of chlorides and nitrates.

ESD Systems.com Statshield® Metal In Premium ESD Bags have:

Superior ESD protection

| | |
|---|---|
| Superior Charge Decay | 0.01 sec per FTMS 101C/4046 |
| Superior Shielding Less Energy Penetration | 15 nanojoules per ESD S11.31 |
| Better Resistance Values | 10^{10} ohms per S11.11 [interior & exterior] |

More Durable & Superior Packaging

| | |
|------------------------------|-------------------------------|
| Puncture Resistance | >12# per FTMS 101C/2065 |
| Stronger Tear Resistance | 100 grams/mil per ASTM D 1922 |
| Better Moisture Barrier MVTR | 0.35 grams per ASTM F1249-90 |

Use Statshield® Bags to Transport and Store ESD Susceptible Items

Per paragraph 6.2.4.2. Packaging Guidance of ANSI/ESD S20.20, "The objective of ESD protective packaging is to prevent a direct electrostatic discharge to the ESDS item contained within and allow for dissipation of charge from the exterior surface." Statshield® Metal In Premium ESD Bags are designed to transport or store ESD susceptible items outside ESD protected areas.

Watermark - Identifies the Bag as Statshield® Premium

Unlike other bags, the Statshield® Metal In Premium ESD Bag has a laminate watermark allowing visual verification. Testing ESD Bags in manufacturing is costly and time consuming. By verifying that your ESD Bags are Statshield® Metal In Premium, you are assured not only that the film is ESD shielding, but that it is of the highest quality.



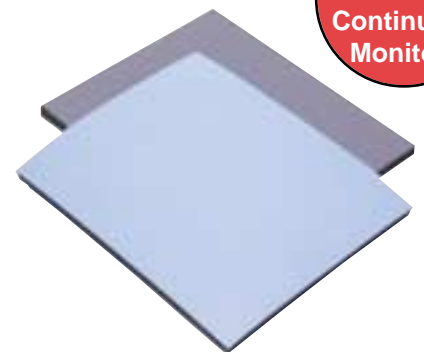
Statfree® Dissipative Mat - Type CE

The ESD Systems.com Statfree® Type CE mat is a cushioned worksurface mat featuring a premium dissipative rubber top layer which slows charge removal. It has a durable heat and chemical resistant surface. The conductive bottom layer provides energy absorption for products susceptible to physical shock. The conductive layer also provides a reliable path to ground.

Statfree® Type CE mat is designed for cleanroom use and provides minimal outgassing.

Type CE matting is available in blue (Item 11380) or grey (Item 11381) rolls of 24" x 50'.

RTG: $10^6 - 10^8$ ohms per ESD S4.1. Meets ANSI/ESD S20.20 work surface requirement.



Compatible with Continuous Monitors



ESD Systems.com to Exhibit At The 23th Annual EOS/ESD Symposium!

The EOS/ESD 23th Annual Symposium will be held September 9th - 13th in Portland, Oregon. This Symposium is an excellent opportunity to learn from tutorials, technical papers, workshops, speakers, presentations, and exhibitors.

We encourage you to stop by the ESD Systems.com exhibit (**Booth #403**) to learn more about our wide variety of Electrostatic Discharge Control products. This is a great opportunity to meet our ESD Systems.com team.



2001 EOS/ESD Symposium
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Win a Portable Wrist Strap Monitor



Help us clean-up our mail list and win a chance of receiving our new Portable Wrist Strap Continuous Monitor. Plug in Wrist Strap and provided ground cord and obtain continuous monitor protection; will alarm even if intermittent grounding failure occurs. Should enable you to bypass wrist strap touch tester line when entering ESD Protected Area. Continuous Monitors satisfy the daily testing and logging requirement. Per ESD S1.1 paragraph 6.1.3 Frequency of Functional Testing "Daily testing may be omitted if constant monitoring is used."



AN \$85 VALUE!

Ten (10) 4118 monitors will be raffled. To enter visit: www.esdsystems.com/index.asp?ref=raffle



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Receiving Duplicates? Incorrect Address?

Please fax us at 800-805-5665 or e-mail mailing information to us at service@esdsystems.com. Note corrections and/or duplicates and we'll take care of it.

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