



## Energy Division

# SC12 and SC13 Surge Counters

The Bowthorpe EMP range of Surge Arrester monitoring instruments are fully tested for use with any manufacturers surge arrester. The SC12 is a Surge Counter only, whilst the SC13 provides the additional measurement of total leakage current. The analogue instrument provides a means of monitoring the current through the arrester and the leakage current over the surface of the arrester housing. Significant changes after installation may indicate a deterioration in the arrester or a build up of surface contamination.

These instruments, which require no auxiliary supply, are designed for installation in the earth connections of a single surge arrester or alternatively the SC12 may be used with the common earth of a three phase set. Fully weatherproofed and sealed for life they are housed in a one piece gravity die cast aluminium case coated to enhance its already high degree of resistance to surface corrosion. The glass viewing window is sealed in place, using a silicon rubber adhesive, and a desiccator is enclosed to ensure any residual moisture trapped during sealing is absorbed for the service life of the counter.

Mounting is effected by means of an integrally cast lug at the rear of the case providing a single clearance hole for the galvanised steel M12 bolt supplied.

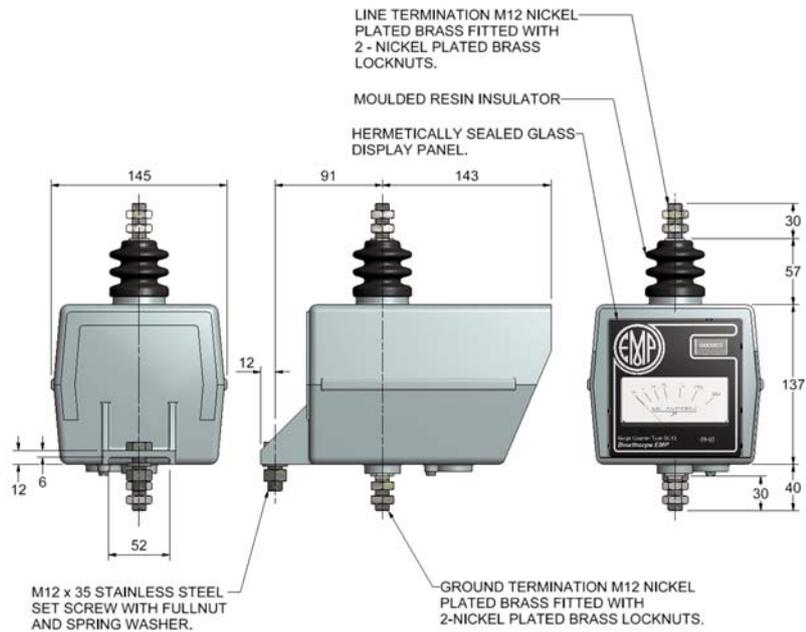
The SC12 and SC13 are service proven and require no special maintenance or servicing apart from general cleaning of the glass viewing window and the moulded epoxy resin line terminal bushing.



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# Bowthorpe EMP SC12 and SC13 Surge Counters



- Meter : 6 digit cyclometer at least 5 counts/second
- Minimum count current : 200 amps 8/20 microsecond wave
- Maximum High Current Withstand : 100 kA 4/10 microsecond wave
- Nominal Residual Voltage at 100 kA : 5 kV peak  
with 4/10 Microsecond Wave
- Meter scale : 0 - 30 mA  $\sqrt{\frac{\text{Peak}}{2}}$  (bilinear scale) Ref SC13
- SC13 leakage : 0 - 50 mA  $\sqrt{\frac{\text{Peak}}{2}}$  (bilinear scale) Ref SC13L

Both counters can be supplied with an auxiliary contact rated 0.5 amps 250V for connection to remote signalling equipment. If required put suffix AC e.g. SC12/AC

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale. Bowthorpe EMP, TE Logo and Tyco Electronics are trademarks.

**Energy Division - innovative and economical solutions for the electrical power industry: cable accessories, connectors & fittings, insulators & insulation, surge arresters, switching equipment, lighting controls, Power Measurement and Control.**

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