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## FSC operating conditions

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### FSC cabinets

FSC systems are generally built into steel cabinet enclosures for mechanical protection of the delicate electronic equipment of the FSC system. Also, compliance with the CE directives requires the FSC systems to be properly enclosed.

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### FSC main components

An FSC system typically consists of the following main components:

- cabinet enclosure,
  - field termination assemblies (FTAs) and/or terminals,
  - central part (CP) racks with all CPU, memory and communication modules,
  - input/output racks with all input and output modules, and
  - power supply system consisting of power supply units (PSUs), main switches and circuit breakers.
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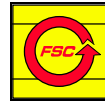
### FSC operating conditions

The operating conditions for FSC systems are as follows:

- Storage temperature:  $-25^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  ( $-13^{\circ}\text{F}$  to  $+176^{\circ}\text{F}$ )
- Operating temperature:  $0^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  ( $32^{\circ}\text{F}$  to  $140^{\circ}\text{F}$ )\*
- Relative humidity: 95% (non-condensing)
- Vibration (sinusoidal): excitation: sine-shaped with sliding freq.  
frequency range: 10-150 Hz  
loads: 10 Hz - 57 Hz: 0.075 mm  
57 Hz - 150 Hz: 1 G  
no. of axes: 3 (x, y, z)  
traverse rate: 1 oct/min.
- Shock: 15 G in 3 axes (shock duration: 11 ms).

\* Measured at the Central Part rack(s) by the Diagnostic and Battery Module (DBM).

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## **FSC environment**

The most common environment for an FSC system cabinet is an air-conditioned equipment/control room. If the FSC system cabinet is to be used in an outdoor environment, special attention should to paid to:

- minimum and maximum ambient temperatures,
  - humidity, and
  - protection grade (IP grading) against dust, water, etc.
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