VisiVolt™ Passive Voltage Indicator

Providing Safety by Making the Presence of Voltage Visible

The VisiVolt™ Voltage indicator uses a unique electric-field sensitive LCD that can be permanently attached to current bars and conductors of any unscreened medium voltage system, providing a higher level of safety to avoid accidents.

VisiVolt™ – Passive Voltage Indicator is a busbar-mounted-type indicator of voltage presence used in outdoor and indoor systems. It is adapted for permanent installation on busbars, and naked or insulated metal conductors in medium voltage systems. VisiVolt™ indicates the presence of voltage by displaying a large, visible lightning arrow sign on its LCD. The VisiVolt™ silicone elastomer enclosure ensures performance in out-door conditions, while its fluorescent orange color provides good visibility among the other elements of the system.

- Applicable to unshielded medium voltage systems – from 3 kV to 36 kV
- For permanent installation – information on voltage presence available all the time
- Outdoor and indoor application
- Good visibility under all lighting conditions
- Maintenance free; passive device – no power supply needed
- Simple and robust construction – resistant to overvoltage (does not use electronic elements)
- Very compact construction
- Easy to install using cable ties
- Economical solution

Example of installation on distribution panel
VisiVolt™
Passive Voltage Indicator

Functions

• Gives visual information about voltage presence in every section of the system
  • Makes localization of faults easier
  • Can be installed on systems on which indicators are not typically installed, such as open switchgear and overhead systems
• Provides higher safety level for service people, which helps avoid accidents and the related costs and other consequences
  • Active warning label indicating presence of dangerous voltage
  • Independent, additional source of information about voltage presence
  • Unlike the obligatory installed warning plates, indicates the actual state of voltage presence
  • Can discourage service people from breaking the safety rules, e.g. working unprotected too close to the live system

Operation

VisiVolt™ indicates the presence of voltage by displaying a large, well visible lightning arrow sign on its LCD. VisiVolt™ indication is based on its sensitivity to the electric field around the live conductor, on which it is installed.

In three-phase systems, VisiVolt™ indicates the presence of both phase-phase and phase-ground voltages. In single-phase systems, VisiVolt™ indicates the presence of phase-ground voltage.

VisiVolt™ indicates presence of voltage when it is greater or equal to 45% of nominal voltage value in three-phase systems or 78% of nominal voltage value in single-phase systems (voltage thresholds required by standards IEC-61958 and IEC-61243).

Two types, VV-A and VV-B are available for two ranges of nominal voltages.

VisiVolt™ indicator is a completely passive device (powered by the electric field surrounding the energized conductor, on which it is installed) and is entirely maintenance free.

Demonstrates how the VisiVolt™ can be used under different conditions

As the pioneer and most experienced manufacturer of arc-resistant switchgear in the USA, only ABB can combine safety and performance that translate into peace of mind for those who specify, recommend, and operate electrical equipment.

Call your ABB representative for more details.