

VOLTECT

Extra-High Voltage Detecting System

AC 3.3kV~550kV

This indication and warning apparatus detects the presence or absence of a charged state of special high voltage substations, electric power transmission lines, power receiving equipment, etc. in a non-contact operation.

Image figure

* This apparatus is produced and sold by our company, having inherited technologies of former Million Electric Mfg. Co. Ltd.

■Features

- Economical as it can be simply installed without using PT, PD.
- Easy installation and maintenance.

Protector

- HG7-P1B (for single phase)
- HG7-P2B (for two-phase)



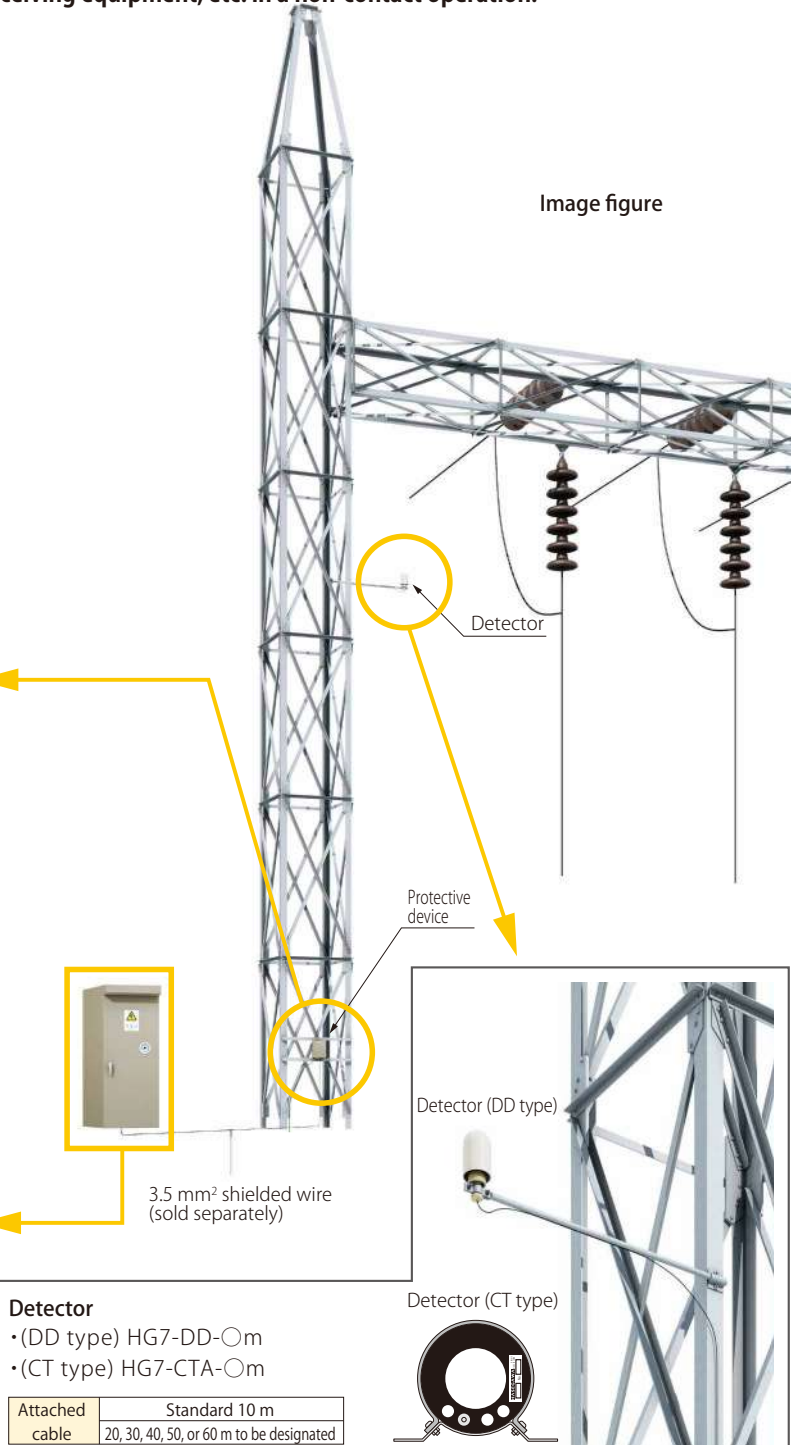
Controller

- HG7-SM○○
 - HG7-DM○○
- * Refer to the following Rating table.



Voltage Meter

- DVF-11M



Detector

- (DD type) HG7-DD-○m
- (CT type) HG7-CTA-○m

Attached cable	Standard 10 m
	20, 30, 40, 50, or 60 m to be designated

■Rating table

Indicating type of the measuring instrument		Voltage switching indication		Indication proportional to voltage
Type of Controller (*1)	Single-phase detection	SM1AH(high sensitivity)	SM1A(standard sensitivity)	DM1A
	Two-phase detection	SM2AH(high sensitivity)	SM2A(standard sensitivity)	DM2A
Line voltage (50/60 Hz)		3.3~550 kV		
Contact	Operating time at charging/power failure	0.5 sec or less (However, ratio of operating point setting: 70 % or less)		
	Configuration	1c (for single phase), 1c × 2 (for two-phase)		
	Switching capacity/100 VDC	Resistance load: 0.5 A, Induction load: 0.1 A		
	Max. allowable circuit voltage	180V. DC, 140V. AC		
Meter	Output	0~1mA. DC		
	Internal resistance	Less than 5 kΩ		
	Operation indication lamp	About 1.5kΩ		
Operation indication lamp		Charging: Red light, Power failure: Green light, No power: Extinguished (milky white)		
Power supply voltage		Standard: 110 V, DC (Others: 24 V, 220 V)		
Power supply current		75 mA (for single phase), 100 mA (for two-phase)		
Withstand voltage, insulation resistance (*2)		2 kV, AC-1 min; 10 MΩ or more/500 V, DC		
Impulse withstand voltage		±7 kV, 1.2 × 50 μS (between terminals in a lump ~ terminal E & case)		

* 1. DM1A & DM2A in the table are of standard sensitivity. In addition to these, there is the low-sensitivity type SM (L).
* 2. Between terminals in a group and case. However, terminal E could be included in the terminal group or excluded during the test.

■How to decide the specification

Installation site of detector	Outdoors		Indoor		Inside the cubicle	
	Control equipment	Detector	Control equipment	Detector	Control equipment	Detector
Nominal line voltage						
3.3kV	—	—	H	CT	H	CT
6.6kV	H	DD	H, ST	CT	H, ST	CT
11kV			H	DD	H	DD
22kV	H, ST		H, ST			
33kV	ST		ST			
40~160kV					ST	
161kV~550kV	Low sensitivity (L)		Low sensitivity (L)		—	—

* As for H, use high sensitivity (H) of the type SM.

* As for ST, use standard sensitivity of type SM or type DM.