Electromagnetic Amplifier PH300147

Electromagnetic Amplifier detects electromagnetic waves emitted by lightning discharge and integrates/amplifies the signals.

It is composed of an input amplifier and an integrating amplifier with a broad frequency bandwidth of 1kHz - 10MHz. It can also be used as an instrument in analyzing electromagnetic waves generated by lightning discharge.

It is a lightning electromagnetic field integrating amplifier with excellent maximum receiver sensitivities (15V/m for electric fields and 50nT for magnetic fields).

The integrating amplifier has 2 channels each for for electric and for magnetic fields.

ELECTRICAL CHARACTERISTICS:

Receivable electric field bandwidth (fast antenna)	1kHz to 5MHz
Receivable electric field bandwidth (slow antenna)	0.1Hz to 100kHz
Electric field integrating amplifier noise level	< 10mVp-p
Magnetic field minimum receiver sensitivity	50nT (0.5mG)
Receivable magnetic field bandwidth (2ch)	1kHz to 5MHz
Magnetic field integrating amplifier noise level	< 10mVp-p
Output level (electromagnetic field)	1Vp-p
Output impedance (electromagnetic field)	50 ohm
Power supply	AC 220V, 50Hz (with Lightning protection transformer)
Power consumption	50VA

MECHANICAL CHARACTERISTICS:

Dimension	430 (W) x 230(D) x 50(H) mm
Weight	< 5kg

Lightning measurement

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