



TRANSIENT PROTECTION FOR RPM MODEM LINES

In areas where there may be high voltage transients present along the telephone lines it is suggested that a line conditioner be used in conjunction with the RPM Modem. The susceptibility of the area can be ascertained by contacting the local telephone company and requesting a risk appraisal.

The Tercel ILH200 is a suggested option to protect the modem from high voltage spikes carried from the telephone lines.

ISOLINE SIGNAL LINE TRANSIENT PROTECTION ILH200

Product Description

The range of Isoline signal line transient protection products with model numbers ILHxx are designed for the protection of datacomms, SCADA systems, 4-20mA loops, telemetry systems and PLCs. The ILH200 is specifically designed for switched telephone services and other services connected to the PSTN.

Operation

Isoline Signal Line transient protectors are designed for the protection of sensitive electronic equipment from the damaging effects of lightning surges, transients and RF interference.

The first stage of protection (line side) consists of a three terminal gas arrester between LA, LB and earth. This gives primary protection for both common and transverse modes and absorbs the majority of the surge energy.

The second stage of the ILH200 consists of two series inductors followed by a transverse connected MOV. This further attenuates surge voltages already clamped by the gas arresters.

The MOV and the following clamp diode stage absorbs energy let through the gas arrester as it commences its firing cycle. The MOV stage also absorbs overvoltages, up to 230V, which do not fire the arrester.

The final protection stage consists of two series PTC resistors and a transverse connected transorb diode to give the final clamp voltage. The PTCs also act as overcurrent protection.

For best protection against lightning induced surges, the earth terminal of the device should be connected to the chassis of the equipment being protected and both taken to a good earth point.

Application

The ILH200 is designed for public switched telephone network services, PSTN, and intended for use with any aerial or underground 2 wire signal circuit.

Maintenance

ISOLINE filters are virtually maintenance free. Should any abnormality arise, the filter should be returned to your nearest Tercel distributor for attention. This product incorporates multi stage protection which will provide a measure of protection in the case of a catastrophic event.

Specifications

Model No:	ISOLINE model ILH200
Operating voltage:	200VDC max. line to line
Loop Resistance:	<20 ohms
Protection modes:	Transverse and common mode
Protection stages:	Gas arrester/MOV/Transorbs
Surge withstand:	ANSI C62.41 cat. A, B, C AS1768-1991 cat. A, B, C
Surge rating:	20kA for 8/20 μ s pulse
Performance:	200V clamp for 6kV ringwave
Frequency response:	3dB point >1MHz
Dimensions:	80mm x 74mm x 25mm
Mounting:	Universal DIN Rail

WIRING LAYOUT

