

3kV line isolation unit (LIU-4302)

High Voltage protection and safety solutions.



features:

- ▶ >3.5kV ac isolation
- ▶ >5.0kV dc isolation
- ▶ accepts ring current
- ▶ sends simulated ring
- ▶ accepts and sends decadic dialling
- ▶ transmits voice and DTMF
- ▶ detects off hook condition and loops the line

versatile

easy to use

durable

dependable

The **3kV Line Isolation Unit (LIU-4302)** is a two wire dial through unit designed for use in conjunction with Customer Premises Equipment which is not capable of meeting Australian telecommunication stringent standards for line isolation.

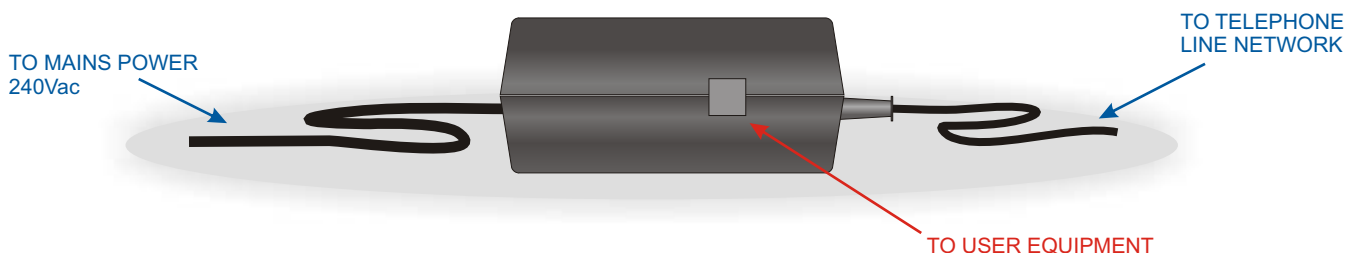
The **LIU-4302** provides the appropriate isolation standards and allows connection to the PSTN of otherwise non permitted equipment (subject to the approval by Austel of the combined **LIU-4302** and terminal equipment).

description:

The **LIU-4302** provides the necessary 3.5kV ac isolation for more than one minute. It will accept ring current on the line side and transmit simulated ring current to the equipment. Compatibility with older decadic dialling systems is a handy feature the **LIU-4302** offers, it will accept decadic dialling from the equipment and transmit decadic dialling to the line.

The **LIU-4302** is capable of transmitting signals across the voice frequency spectrum in both directions including DTMF signals. When the **LIU-4302** detects an off-hook condition it will loop the line accordingly.

The **LIU-4302** is available as a single stand alone unit which comes fully equipped with 240Vac power cord, telephone cord with a 605 plug attached and an RJ12 modular telephone socket on the equipment side. Rack mount and multiple port configurations are also available on request.



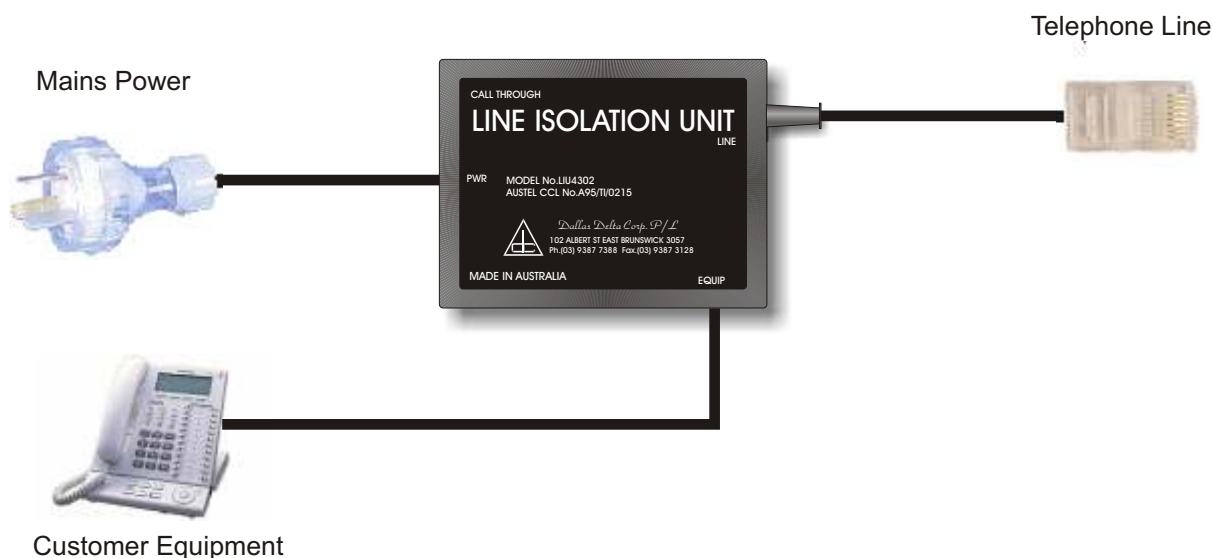
LIU 3kV line isolation unit (LIU-4302)

specifications:

isolation:	ac	> 3.5kV
	dc	> 5.0kV
losses:	insertion loss	< 2dB
	return loss	> 15dB @ 300Hz, <i>complex impedance</i>
		> 20dB @ > 600Hz, <i>complex impedance</i>
current:	pulse dialling current	21mA minimum
	output to equipment	18mA into 300Ω (up to 45mA to order)
	pick-up and line hold current	23mA minimum @ 50V 1900Ω
	line pick-up and decadic dialling detect current	5mA minimum
dialling:	type	decadic and DTMF
	pulse dialling response	< 150 micro-seconds
ring:	ring detect threshold	45V rms @ 16 ² /3Hz
	ring output	30V rms nominal @ 50Hz
	ring transfer response	< 50 milli-seconds
power:	mains input	240Vac 50/60Hz (other voltages to order)
physical:	dimensions	111 x 84 x 52 mm
	weight	576 grams
compliance:	Telecom approval number	RA 88 / 122
	Austel certified component listing number	A92 / TI / 0188

~ This unit must be installed by qualified personnel ~

wiring diagram:



The information contained on this product brochure is subject to change without notice.

complies with:
ACA All relevant Australian Communications Authority Standards
AS/NZS3548 EMI Australia/NewZealand Standard



designed and manufactured by:
dallas delta corporation pty. ltd.
 102 albert st. east brunswick, victoria, australia 3057
 tel: (613) 9387 7388 fax: (613) 9387 3128
 email: sales@dallasdelta.com.au
 ABN: 11005 617 532
www.dallasdelta.com.au

