



## TECHNICAL DATA SHEET

### TECPRO AD903 2 TO 4 WIRE ADAPTER

27-903 TECPRO AD903 2 TO 4 WIRE ADAPTER

#### 1 CONNECTING TO THE SYSTEM

Connections from the external system to the AD903 are made via the 4-pin XLR type connector as follows:

Output **FROM** external 4 wire system

Pin 1 - Low

Pin 2 - High

Input **TO** external 4 wire system

Pin 3 - Low

Pin 4 - High

Both connectors are transformer isolated and floating.

If using balanced feeds, connect phase to "high". Do not connect screens, even to each other, and ensure that the screens are grounded at the external equipment end of the cable.

If using unbalanced feeds, connect signal to "high" and screens to "low". Do not connect screens together. In order to avoid ground loops do not make any connections to the chassis of the AD903 unless there are NO other ground connections to the external system. If grounding is required, use only one of the screens.

Connection to three wire systems (four wire with common return-screen) must be done using the shortest possible cable between the AD903 and the three wire connector.

The rest of the TecPro system is plugged in via the 3-pin XLR type connectors and this is fed back through the outstations to a master station or power supply.

#### 2 BASIC OPERATION

The levels of the external system to and from the TecPro system are set as follows:

The **output from** the four wire system is controlled by the screwdriver preset and attenuator switch marked "Output". If the signal is insufficient even with the preset fully clockwise put the switch into the "lo" position and re-adjust the preset.

The **input to** the four wire system is controlled by the screwdriver preset and attenuator marked "Input". If the signal level is insufficient even with the preset fully clockwise put the switch to "Hi" and then readjust the preset.

#### 3 SIDETONE

When connected to other talkback systems there may be sidetone (a portion of the output being heard on the input) provided on that system. This must be set to zero or as low as possible and then any sidetone required can be provided by turning the "Null" screwdriver preset on the AD903.

Any sidetone created other than in the AD903 will cause the bridging impedance of the adapter to reduce which can cause the sidetone balance throughout the two wire system to be altered. In extreme cases this can prevent satisfactory operation altogether.

#### TECHNICAL SPECIFICATION

<b>Power requirements:</b>	24-30V DC at 15mA from comms system
<b>External input:</b>	-60 to +30dBm into 10kΩ nominal, balanced and floating.
<b>External output:</b>	-60 to +18dBm into 10kΩ nominal, balanced and floating.
<b>Connections:</b>	4-wire: via XLR 4 pin male socket. 2-wire (intercom ring): via XLR 3 pin male and female (loop-through).
<b>Controls:</b>	Mic/Line switches and 10 turn presets to external system input and output.
<b>Dimensions:</b>	55×93×110mm
<b>Weight:</b>	420g
<b>Construction:</b>	Black anodised extruded case with glass filled nylon bezels for protection.
<b>Accessory cable:</b>	'Y' lead YL908 has 4 pin female XLR splitting to one male and one female 3 pin XLR, for 4-wire connection. (Stock code: 27-908)