File

19 DIRECT BOXES

match the levels!

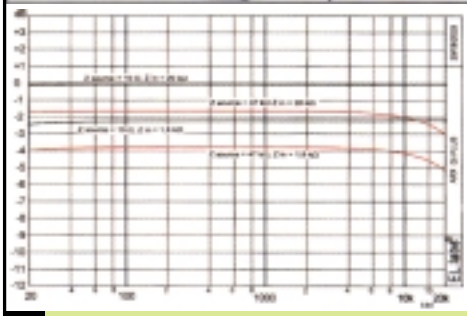
ARX DI-PLUS

Active

The DI Plus exudes ruggedness; its thick sheet metal chassis opens like a clamshell to give access to the battery compartment. A switch with two status LEDs (Good/Replace) lets you test the battery, and when phantom power is connected another LED lights up. Plugging a jack connector into the unit switches on the power. ARX has included two input connectors, one for instrument levels and the other for amplifier output levels, with an attenuation of 40 dB. A front panel PAD switch attenuates the signal a further 20 dB. A loop output can send an instrument signal to an onstage amplifier.
The balanced XLR output connector has an associated ground lift switch.
The DI Plus uses precision components (1% resistors and low noise ICs like the rare LM 833).

This is a very neat, well manufactured unit.

It maintains a constant impedance no matter what the gain setting. The unit has the gain and headroom to handle high signal levels. The low signal to noise ratio gives the DI Plus excellent dynamic range, because the maximum output level is raised. Relatively insensitive to external RFI, this DI doesn't require any particular precautions when using it.



Frequency response. The unit's relatively high output impedance loads the input impedance of the microphone pre amp by 2 dB. With a high impedance source, the signal drops progressively.

Measurements

Input Imp/Atten.	250/340/500 k Ohm	Correct
Output Imp	500 Ohm	Correct
Out Symmetry	.02% at 20 kHz	Very Good
Gain	5.3 dB/ -16.5 dB/ -51 dB	Confirmed
Max Input Level Battery/Phantom	+6 dBu/ +13 dBu	Good
THD @ - 3 dB, 40/1,000/10,000 Hz	0.001%/ 0.001%/ 0.0034%	Perfect
Signal/noise unweighted/Aweighted	-97 dBu/ -99 dBu	Very Good
Magnetic field variation	~10 dB	Good
Phantom power consumption	5.7 mA	Great
Battery consumption	5 mA	Good
Total isolation	120 Ohms	

Translated from the original French version by ARX. We have endeavoured to maintain the same 'feel' as the original