

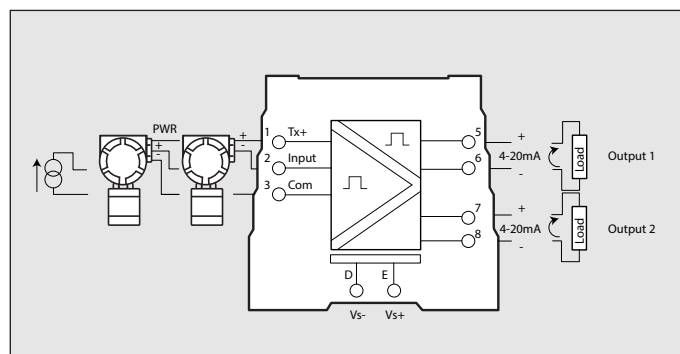
# MTL1143 Transmitter Power Supply with Repeat Output

## 1 Channel, Smart for 2/4-wire transmitters

The **MTL1143** is a Single Channel Analogue Input isolator with dual outputs. HART communication is provided for Smart two wire transmitters via Output 1. The transmitter can be interrogated either from the operator station or by a hand-held communicator (HHC). Power for this module is supplied via the power bus embedded in the DIN rail.

The PBUS6.2 kit must be ordered separately. 10 x 2 way power clips are provided to power 20 modules.

The **MTL1991** is used to feed power onto the bus.



Terminals	Function
1	Tx+
2	Input
3	Common
5	Output + (with HART)
6	Output - (with HART)
7	Repeat Output +
8	Repeat Output -
D	Power supply -ve
E	Power supply +ve

SPECIFICATION	see also common specification
Number of channels	One, with 2 fully floating outputs
Location of Transmitter	Safe area
Input and output signal range	4 to 20mA
Under/Over-range	<3.0mA to >23mA
System output load resistance (source mode)	@ 20mA: O/P1 0 to 330Ω, O/P2 0 to 380Ω @ 24mA: O/P1 0 to 270Ω, O/P2 0 to 300Ω
Power supply voltage	18V to 32V DC
Transmitter supply voltage (field power supply)	≥16.5V at 20mA
Transfer Accuracy at 20 °C	Transmitter powering mode: < ±20μA
Temperature drift	<2μA/°C (-20 to +60°C)
Maximum current consumption (with 20mA signal)	53mA @ 24V dc
Maximum power dissipation within unit	<0.85W @ 24V dc
Digital Signal Bandwidth	Approx. 3dB @ 1KHz to 2.2KHz
Isolation	50V ac or dc between power, field and system circuits. (tested to 1500V)