

6.4.7 MTL4544D - Repeater Power Supply

Single channel, 4/20mA, HART® for 2- or 3-wire transmitters, two outputs

The MTL4544D provides a fully-floating dc supply for energising a conventional 2- or 3-wire 4/20mA transmitter located in a hazardous area, and repeats the current in other circuits to drive two safe-area loads. For HART 2-wire transmitters, the unit allows bi-directional transmission of digital communication signals superimposed on the 4/20mA loop current. Separately powered current sources, such as 4-wire transmitters, can be connected but will not support HART communication.

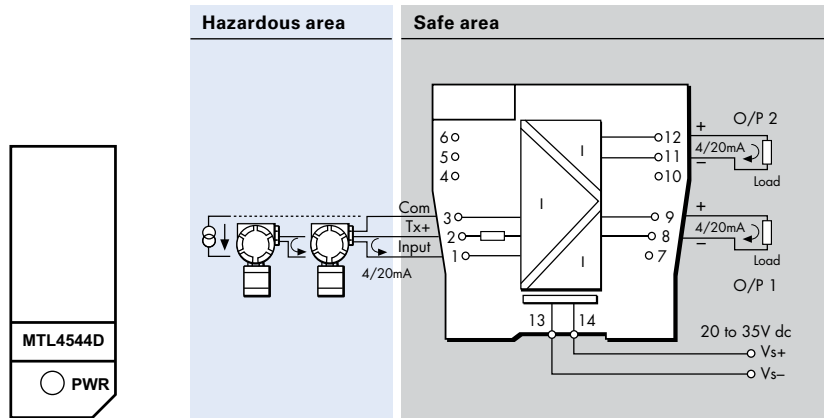


Figure 6.30:
Top label for
MTL4544D

Terminal	Function	
1	Current input	
2	Transmitter supply +ve	
3	Common	
8	Output 1 -ve	HART supported
9	Output 1 +ve	
11	Output 2 -ve	HART not available
12	Output 2 +ve	
13	Supply -ve	
14	Supply +ve	

NOTE

For correct operation of the module, a suitable load must be present on *both* output channels.

This is of particular importance during testing, commissioning or maintenance activities when the temporary disconnection, or absence, of a load can affect the transfer accuracy of the analogue variable.