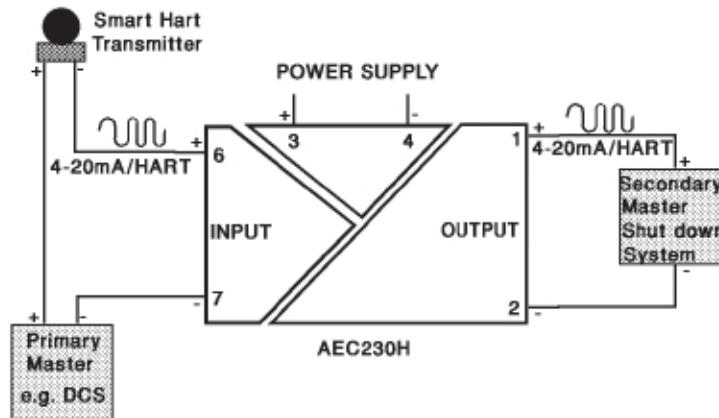


HART COMPATIBILITY

Amelec range of Hart compatible Isolators offer full protection without losing bi-directional communication link between your SMART equipment and the process monitoring equipment, such as DCS. The option "H" is available on most series of Isolators we offer. The Block diagram below shows a typical set-up using AEC230H.



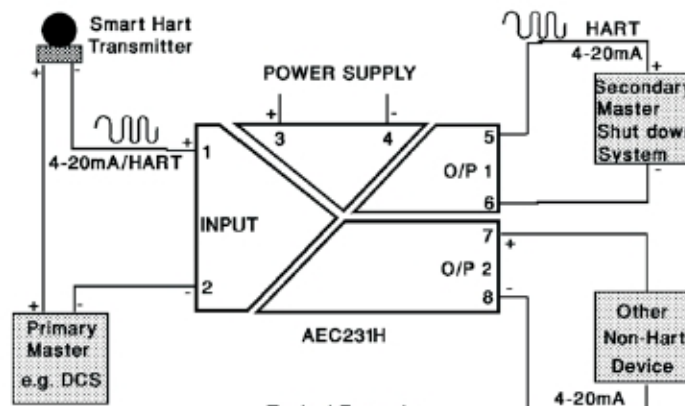
Typical Example

Because the HART signal is superimposed on to the 4-20mA signal, it can utilise existing wiring already in place. The HART isolator can easily replace existing non-compatible isolator or be added in to the loop with no major changes to the wiring, thus keeping installation cost to a minimum.

Benefits of using HART compatible Isolators:

- Protect IO cards and expensive equipment from surge, spikes and transient.
- Eliminate ground loop problems, this can be difficult to troubleshoot but avoided easily with an Isolator.
- Protects your primary 4-20mA signal from loop breaks on the secondary side. This means any equipment connected on the output can be safely removed without affecting the input loop, avoiding any unnecessary down time.

The HART compatibility option H is also available on our range of signal splitters, this will take one 4 - 20mA signal in and give two isolated 4 - 20mA out. Output 1 is made HART compatible and output 2 is standard 4-20mA output. On request both outputs can be made HART compatible. The diagram below shows a typical set-up using AEC231H signal splitter.



Typical Example

For more information and/or to discuss your application, please contact our technical sales staff at the factory in Milton Keynes.

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