

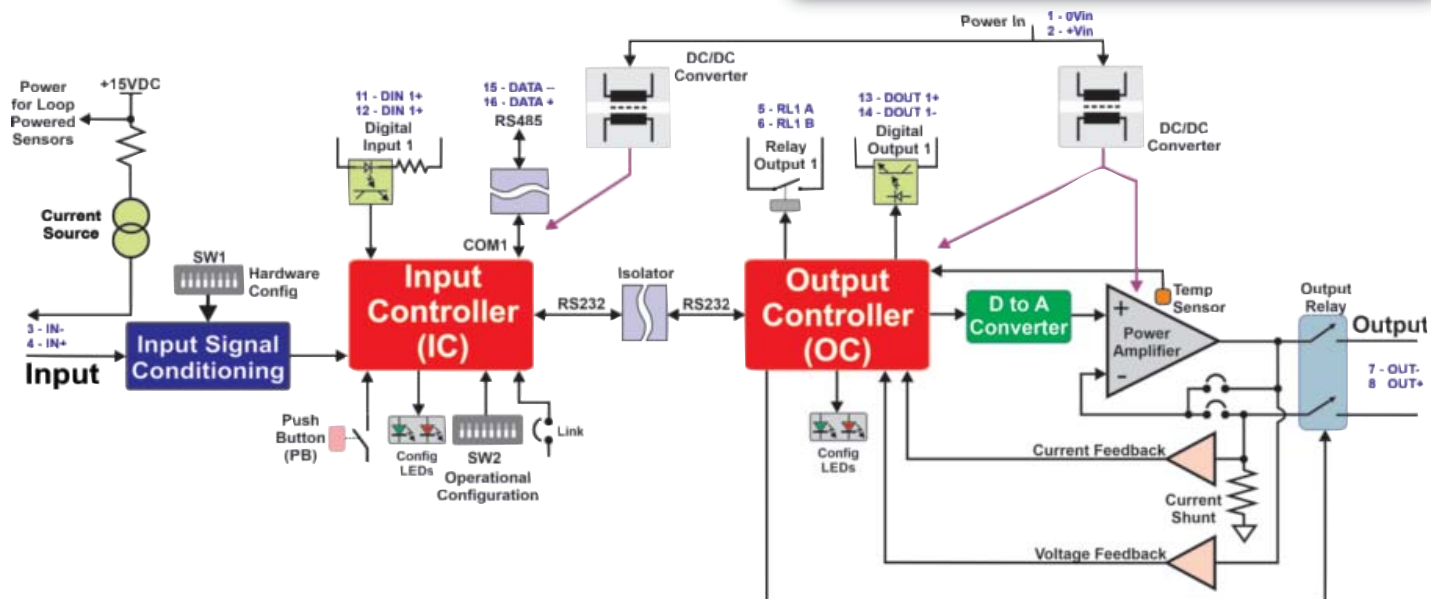
HIGH CURRENT OUTPUT HYDRAULIC VALVE INTERFACE UNIT (HCOHVIU)

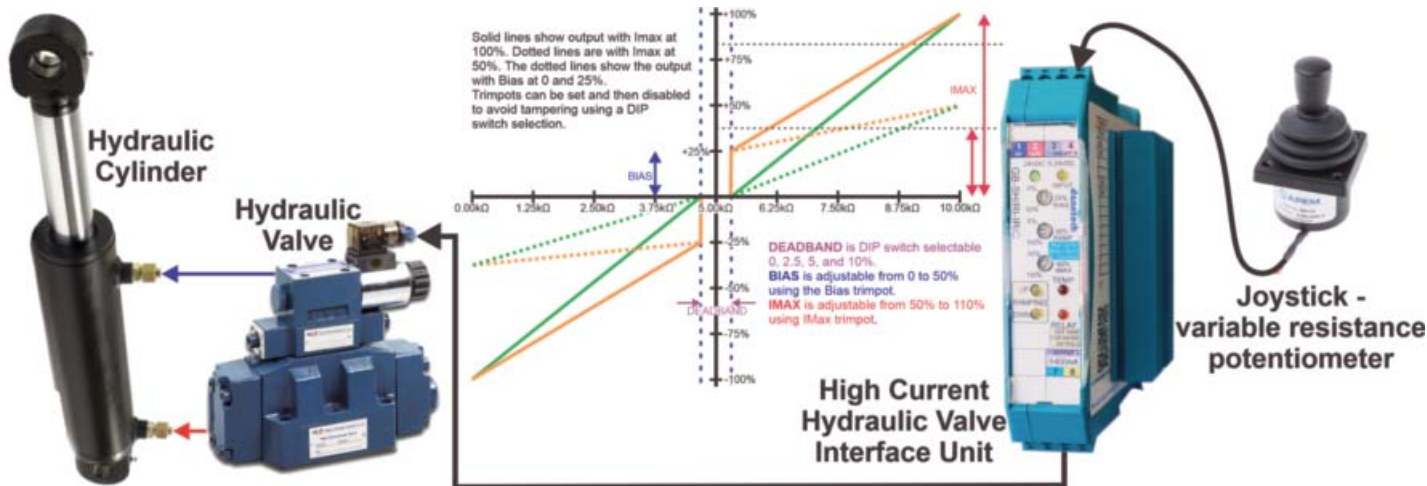
- ❑ Provides either a voltage or current output of up to ± 10 V with various models going up to ± 1330 mA.
- ❑ Output can be either constant voltage or constant current.
- ❑ Linear control of output current and voltage, not switched mode.
- ❑ Interface to bipolar hydraulic valves.
- ❑ Electrochemistry - potentiostatic and galvanostatic testing.
- ❑ Servomotor control.
- ❑ Test current generator.
- ❑ Provides a RS485 serial interface for multi-dropping up to 32 devices for remote PLC or computer control.



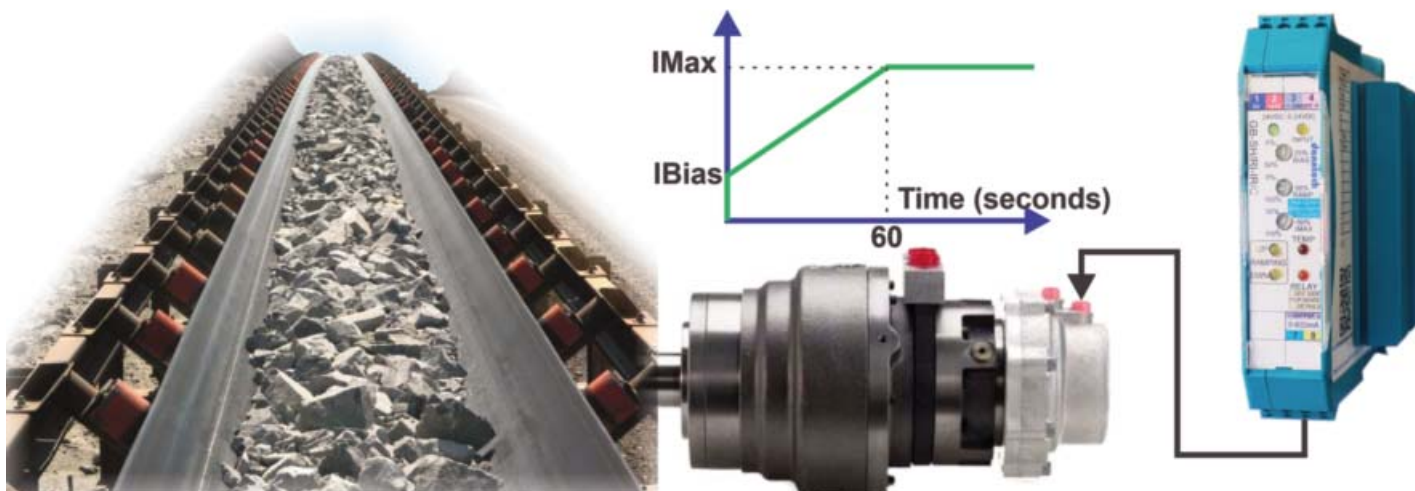
There is an output isolation relay which can be used as an emergency stop or for disconnecting the output. The Output Controller can receive setpoints from Input Controller or replay a repetitive pre-programmed waveform. Output current and voltage measurements using the serial communications. Programmable output modulation (dither) independent of the output control. Heatsink temperature monitoring with warning and automatic shutdown.

We can write customized firmware for your application. Contact us with your requirements and we will adapt this standard product for your implementation.





Can be used with a bi-directional hydraulic valve or motor with a resistance or potentiometer control. The Bias adjustment can be set to provide a smooth control during direction change. Ramping is useful to eliminate sudden control changes which could cause damage.



Soft starting of loaded conveyer belts with a hydraulic motor can be implemented with selectable ramping rate.

SPECIFICATIONS:

- Input options are 0 to 10 V, 0 to 5 V, ± 10 V, 0 to 20 mA, 4 to 20 mA, resistance (potentiometer).
- Output options are 0 to 10 V, ± 10 V (up to 1330 mA), current output up to ± 1330 mA.
- Requires an external DC supply of either: 9 to 18 VDC (12 VDC nominal), 18 to 36 VDC (24 VDC nominal), 36 to 75 VDC (48 VDC nominal).
- Supply current typically I_{out} + 100 mA.
- Isolation of up to 1500 VDC or more, between input, output and the auxiliary power supply.
- Bias (zero), Ramping and I_{max} (span) adjustments.
- Ramping selectable in three ranges 0-10 sec, 0-60 sec and 0-120 sec - DIP switch selectable with fastest step response of 10 mS or less.
- Front panel adjustments can be set as needed and then disabled using a DIP switch.
- Optional RS485 communications with our simple command interface so multiple units can be used with remote control.
- Modbus communications option in development.
- Hydraulic valve controller option available on request with dither and ramping.
- One isolated digital input.
- Internal output isolation relay.
- Heatsink temperature monitoring with automatic shut-down at 80°C and restart at 70°C.
- Operating temperature -10°C to 60°C.
- Input/output accuracy better than 0.5%.
- DIN rail mounting.
- Plug-in screw terminal connections.
- Dimensions 40 x 110 x 113 mm (width x length top to bottom x height off DIN rail).
- Approximate weight 150 g.



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