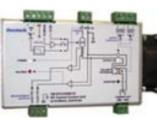


Generic Part Numbering	Danntech Product Name	Photo	Background	Product Features	Product Brochure	User Manual	Output	Input	Response Time	Isolation	Technical Details	Output Control	Power Supply	Availability	Configurability	Price (ZAR)	Price (US\$)	Price (€)	Price (€)
GB-SI/...	Process Signal to Bi-Polar Current Converter		Developed from our standard signal converter/isolator range. This uses our basic signal converter format with high speed analogue isolator and current drive output. We have been making these for some years and have just recently revised the circuit to make it easier and quicker to configure.	Analogue, linear design. Can be fast responding with filtering trimpot adjustment. Bi-polar current output.	Presently just uses GB12 but could have it's own product brochure with more comprehensive information - test results, response times, etc.	No user manual at this time.	Current only - up to ±20mA.	4-20mA, 0-20mA, ±100mA, 0-10V, ±10V, 0-100mV, 0-100V, etc.	Approximate minimum of 1mS (1kHz), can be made faster (probably up to around 5kHz) if required.	Three way isolation - input/output - 1kVDC, auxiliary power - 4kVDC.	Completely analogue, uses ISO122 and basic class C type amplifier output. Maximum current limited by power supply - output circuit could handle up to 500mA with heatsinking. Can be mains or DC powered.	Linear.	115 VAC 230VAC 12VDC 24VDC	Assembled on order, normally have built PCBs in stock ready for configuration and testing. (1-2 weeks)	Factory configured for many different inputs. Inputs can be anything within the input ranges.	R 2 080	\$192	€117	€ 141
GB-DF/...	Signal Converters for Danfoss Hydraulic Valves with Ratiometric Control		This comprises of four products each providing a different input/output configuration. Originally made from documents supplied by Danfoss SA.	GB-DF/NB1: 4-20mA/25%-75% GB-DF/NB2: ±10V/25%-75% GB-DF/NB3: 0-10V/25%-75% GB-DF/NB4: 0-12V/25%-75% Has multi-turn trimpot for output neutral point adjustment.	GBOX29 needs an update, new photos.	No user manual - has some application notes.	Ratiometric - 25% to 75% of supply voltage.	4-20mA, ±10V, 0-10V, 0-12V.	Approximately 1mS - needs to be confirmed.	None.	Completely analogue design, fairly in-flexible.	Linear.	12VDC 24VDC	Ex-stock or a few days.	Not user configurable, slightly factory configurable.	R 975	\$90	€55	€ 66
GB-HV/...	Hydraulic Valve Interface Module (HVIM)		Our general interface for various hydraulic valves, originally inspired by Haydn at Pro-Hydraulics about ten years ago. Has many features in a compact package. Can be used with joystick input.	Linear output current control. Recently revised circuit, now input is isolated from the power supply. Output shares connection to power supply. Monopolar current output. Has internal relay which can be used for output polarity switching.	GBOX46 needs an update, new photos	um0063 needs an update.	Two models, 0-100mA without external heatsink and 0-500mA with heatsink. (previous model, which we can still supply, could do ratiometric output 25%-75%).	Resistance, internal trimpot, 4-20mA, 0-20mA, 0-10V, ±10V, 0-100mV, etc. (previous version, which we can still supply, could use ratiometric input 25%-75%).	Can be 2mS or less but generally set by ramping controls.	Two way isolation - input/output 1kVDC isolation output and auxiliary power are NOT isolated.	Microprocessor based - with digital isolation, optional output relay or digital input for auxiliary controls.	Linear.	12VDC 24VDC	Assembled on order, normally have built PCBs in stock. (Old versions 1-2 weeks, new versions 3-4 weeks)	Factory configurable, new model is user configurable using DIP switches, later could use software. Has trimpots for setpoint, ramp, bias and output max adjustment- these can be disabled using a DIP switch.	R 2 750	\$254	€155	€ 186
GB-SH/...	High Current Output Signal Converter (HCOSC)		We have been making these for ten years or so and have recently updated the design to be more reliable, have much better flexibility and to include many more features.	Our new design has 3 way isolation, bi-polar current and voltage output with output up to ±350mA (later another version up to ±1.1A). Dither, ramping and all the features required for high spec hydraulic valves.	GB59 will need an update when the new version is available (or before?)	um0068 needs an update.	Two models ±350mA and ±1.1A.	Resistance, 4-20mA, 0-20mA, 0-10V, ±10V, 0-100mV, etc.	1mS or less.	Three way isolation - input/output/auxiliary supply - 1kVDC isolation.	Multi-processor design to provide flexible inputs, isolated serial communications, output feedback and digitally controlled dither. Uses 16 bit processors with fast 16 bit DAC.	Linear with digitally controlled dither.	9 - 18VDC 18 - 36 VDC 36 - 75 VDC	Assembled on order, normally have built PCBs in stock. (Presently 6 weeks)	User configurable using DIP switches and later software.	R 3 875	\$358	€218	€ 262
GB-DCCU/...	DC Current Control Unit (DCCU)		Originally designed to be low noise and linear for electrochemistry, other uses for hydraulic valves and other precision controls have evolved.	Still shipping our old design but the new version is presently being updated to include dual microprocessor control, multi-way isolation and easier configuration and flexibility. Will still implement linear current control.	GB32 will need an update when the new version is available (or before?)	um0041 needs an update.	Up to 2A up to 20V, requires an external 24V 2.5A power supply.	Resistance, 4-20mA, 0-20mA, 0-10V, ±10V, 0-100mV, etc.	Can be 2mS or less.	Old design has no isolation. New design has two way isolation - input/output 1kVDC isolation output and auxiliary power are NOT isolated.	Old design, completely analogue. New design uses many features of new HCOSC above with additional features while maintaining plug in compatibility with old version.	Linear with digitally controlled dither(?) and output polarity control using internal relay switching.	24 - 28VDC	Assembled on order, normally have built PCBs in stock. (Original version 1-2 weeks, new versions 6 weeks).	User configurable using DIP switches and later software.	R 4 250	\$393	€239	€ 287
GB-PWC/...	Process Signal to Pulse Width Converter (PWC)		Originally designed for DC motor control, updated firmware (done in 2013) makes it more suited to hydraulic valve control but can now be used for both.	New version of firmware uses old hardware with updated, more powerful processor, has some features making it easier adjust and to use.	GB65 needs an update to reflect the new features added.	um0082 needs an update.	Two models, 0-1A without external heatsink and 0-5A with heatsink.	Resistance, 4-20mA, 0-20mA, 0-10V, ±10V, 0-100mV, etc.	Around 10mS or less. Need to measure this.	Two way isolation - input/output 1kVDC isolation output and auxiliary power are NOT isolated.	Microprocessor based - with digital isolation, output relay for auxiliary controls. Has internal setpoint, bias, ramping and I _{max} trimpot adjustments.	Pulse width control using secure switching of auxiliary power to load. Four frequency settings.	12VDC 24VDC	Keep stock of basic types, others built to order. Normally have assembled PCBs available for configuration and testing. (1-2 weeks)	User configurable using DIP switches and later software.	R 2 750	\$254	€155	€ 186