

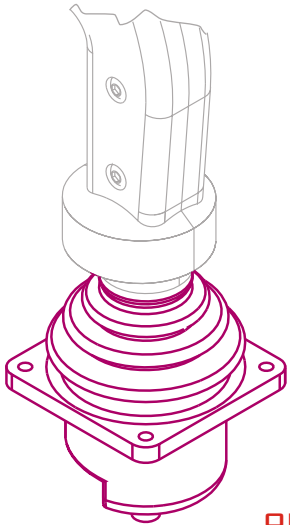
# PROPORTIONAL CONTROLS



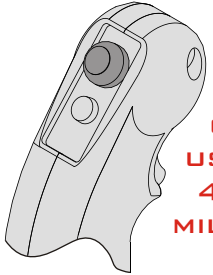
TECHNOLOGIES LTD.

SCORPION TECHNOLOGIES LTD. CURRENTLY OFFERS A RANGE OF PROPORTIONAL CONTROLS AND ACCESSORIES AS PART OF OUR PRODUCT LINE, AND PLANS ON INTRODUCING EVEN MORE FEATURES IN THE NEAR FUTURE.

## CURRENTLY PART OF OUR PRODUCT LINE:



**A) PROPORTIONAL JOYSTICKS** OUR JS-01 (SINGLE AXIS) AND JS-02 (DUAL AXIS) ARE PROPORTIONAL VOLTAGE OUTPUT SPRING RETURN TO CENTER JOYSTICKS THAT OFFER A GREAT COMBINATION OF VALUE AND PERFORMANCE. BOTH MODELS USE HALL EFFECT SENSORS AND HAVE ONLY 3 MOVING PARTS TO GIVE A LIFE EXPECTANCY IN EXCESS OF FIVE MILLION CYCLES. THE JOYSTICKS ARE AVAILABLE WITH A PLAIN KNOB OR ANY OF OUR "L", "M", OR "S" GRIPS.

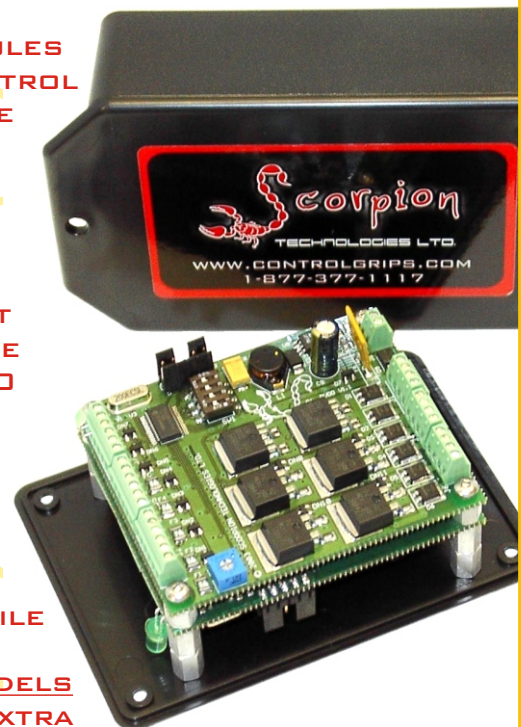
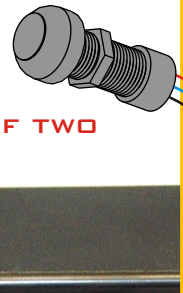


**B) PROPORTIONAL PUSHBUTTONS** WE OFFER PROPORTIONAL HALL EFFECT PUSHBUTTONS AS AN OPTION ON THE FACEPLATES OF OUR "L", "S" AND "O" GRIPS. THESE PUSHBUTTONS USE A SENSOR AND MAGNET ASSEMBLY THAT GIVES A 0.5 TO 4.5 VDC OUTPUT AND HAVE A LIFE EXPECTANCY IN EXCESS OF TWO MILLION CYCLES.

**C) VALVE DRIVER MODULES** OUR VALVE DRIVER MODULES ACT AS AN INTERFACE BETWEEN THE LOW POWER CONTROL DEVICES LISTED ABOVE AND THE HIGH CURRENT VALVE SOLENOIDS. THE MICROPROCESSOR BASED MODULES ACCEPT 0-5 VDC INPUT SIGNALS AND PROVIDE THE CORRECT OUTPUTS TO DRIVE MANY DIFFERENT MANUFACTURERS' VALVES.

WE OFFER VALVE DRIVERS IN TWO MODELS. THE FIRST IS A VOLTAGE OUTPUT MODEL THAT IS DESIGNED TO BE COMPATIBLE WITH THE DANFOSS PG 32 AND PG 120 SERIES OF VALVES.

THE SECOND MODEL HAS A PROGRAMMABLE PWM (PULSE WIDTH MODULATION) OUTPUT THAT CAN BE SET (BY THE FACTORY OR THE CUSTOMER) TO WORK WITH MOST OTHER VALVE MODELS. PWM FREQUENCY AND RAMP RATE ARE ADJUSTABLE ON THE BOARD, WHILE A SIMPLE TO OPERATE PROGRAMMER IS USED TO SET MINIMUM AND MAXIMUM CURRENT VALUES. BOTH MODELS WILL DRIVE 2 BIDIRECTIONAL VALVES, AND HAVE AN EXTRA OUTPUT THAT CAN BE USED TO DRIVE A DUMP OR DIVERTER VALVE. BECAUSE BOTH MODELS ARE MICROCONTROLLER BASED, THE FUNCTIONS CAN BE MODIFIED FOR CUSTOM APPLICATIONS WITHOUT EXTENSIVE REPROGRAMMING AND THE ASSOCIATED COSTS.



PROPORTIONAL CONTROLS

SCORPION TECHNOLOGIES LTD.  
#10 953 LAVAL CR. KAMLOOPS  
BC, CANADA V2C 5P4

WWW.CONTROLGRIPS.COM  
PHONE: (250) 377-4399  
FAX: (250) 377-4036



**C) PROPORTIONAL ROCKER SWITCH** WE HAVE A PROPORTIONAL ROCKER SWITCH AVAILABLE FOR THE FACEPLATE OF OUR "L" AND "O" SERIES GRIPS. THIS SPRING RETURN TO CENTER ROCKER HAS A 5 KOHM POT, ON/OFF DIRECTIONAL SWITCHES, AND FEATURES A LIFE EXPECTANCY IN EXCESS OF ONE MILLION CYCLES. THERE IS EVEN STILL ROOM FOR A DOUBLE TRIGGER AND UP TO 3 ADDITIONAL ON/OFF FACEPLATE SWITCHES.

PRODUCTS COMING SOON:

SCORPION TECHNOLOGIES LTD. HAS AN ONGOING NEW PRODUCT DEVELOPMENT PROGRAM THAT INCLUDES SEVERAL NEW PRODUCTS AIMED AT EXPANDING OUR LINE OF PROPORTIONAL CONTROLS. IF ANY OF THESE PRODUCTS CATCH YOUR EYE, GIVE US A CALL FOR MORE DETAILED INFORMATION.

**D) HALL EFFECT PROPORTIONAL INPUT BUTTONS** WE WILL SOON BE OFFERING HALL EFFECT PROPORTIONAL FACEPLATE ROCKER SWITCHES AND TRIGGERS FOR OUR "L", "S" AND "O" GRIPS. HALL EFFECT TECHNOLOGY OFFERS A GREAT COMBINATION OF LONG LIFE AND REASONABLE COST.

**E) STRAIN GAUGE PROPORTIONAL MINI JOYSTICKS** THESE MINI JOYSTICKS FIT INTO THE FACEPLATES OF OUR "L", "S", AND "O" GRIPS, AND OFFER A GREAT WAY TO GET A DUAL AXIS (FOUR DIRECTION) CONTROL INTO A TINY SPACE. WITH ABSOLUTELY NO MOVING PARTS, THE MECHANICAL LIFE OF THIS PRODUCT IS ESSENTIALLY INFINITE.

**F) RADIO REMOTE CONTROLS** WHILE WE ARE ALREADY OFFERING SOME SIMPLER RADIO REMOTE CONTROLS (NOT IN THE CATALOG YET, CALL US FOR INFORMATION), WE WILL SOON BE FEATURING A MULTI CHANNEL REMOTE CONTROL SYSTEM THAT WILL INCLUDE UP TO 14 8 BIT ANALOG INPUTS, ALONG WITH UP TO 16 DIGITAL INPUTS.

SCORPION TECHNOLOGIES LTD. IS COMMITTED TO BRINGING OUR CUSTOMERS A WIDE RANGE OF DIFFERENT TECHNOLOGIES, FROM THE TRIED AND TRUE SIMPLE POTENTIOMETER TO THE CUTTING EDGE OF THE LATEST STRAIN GAUGE SYSTEMS. OUR COMBINATION OF ONGOING LONG TERM PRODUCT SUPPORT AND AGGRESSIVE NEW PRODUCT DEVELOPMENT ENSURES THAT OUR CLIENTS WILL ALWAYS HAVE THE OPTIONS NEEDED TO MAKE THE BEST CHOICE FOR THEIR APPLICATION.

**SCORPION TECHNOLOGIES LTD.**  
800 FIFTH AVE #101-507  
SEATTLE WA 98104

**WWW.CONTROLGRIPS.COM**  
TOLL FREE PH: 1-877-377-1117  
TOLL FREE FAX: 1-877-377-4036