

MOTION CONTROL

Closed-Loop Control	Linear and rotary position, pressure, and velocity 2 ms loop time for TMC and MMC188/40 and /41 modules 1 ms loop time for MMC120, VMC and MC modules
Hydraulic Control	Current drive for SERVO valves (MMC120 with VC2100 option) Voltage drive for proportional valves with internal loop
Motor Control	Voltage drive output for SERVO motors Good with internal velocity loop; without internal loop more tuning is required
Position Control	Linear and rotary (RMC, Quad/10 or QSBX)
Pressure Control	Yes, with analog option (RMC or ASBX on TMC, VMC, and MC, or MMC 188/41) or through backplane; not available with MMC120
Velocity Control	Through motion profile or rotary speed control (RMC or QSBX)

DRIVE

+/- 100mA or +/- 10 VDC, VMC and MC modules
+/- 100mA or +/- 50 mA or +/- 25 mA, TMC and MMC modules
+/- 10 VDC or +/- 5 VDC or +/- 2.5 VDC, TMC and MMC modules
+/- 10 VDC, MMC120 modules; current drive with VC2100 option

LOOPBACK TEST

With SSS/10 Servo System Simulator or
PPS/14 Position/Pressure simulator
Internally generated input simulation

MOTION

Synchronized motion, with the target following the control loop,
coordinated through the PLC
Interpolated motion, linear or ratioed only

PROFILES

Trapezoidal; generated on-board
MMC120: Profiles stored in FLASH PROM
MMC 188/40 and /41: Profiles stored on-board with EEPROM option;
profiles do not include REQUESTED POSITION)

RESOLUTION

Magnetostrictive transducers - 16 bits, 1 part in 65,536
QUAD/10 - 1 part in 60,000
Analog (ASBX or MMC188/41) - 12 bits, 1 part in 4096
Quadrature (QSBX) - 16 bit control, 22 bit counters,
1 part in 4,194,304

TRANSDUCER

Interface - Linear motion with magnetostrictive transducers

- Start/Stop or Pulse Width Modulated magnetostrictive transducers with MMC120
- Quadrature encoder with RMC, QUAD/10 or QSBX
- Analog position with RMC, ASBX or MMC 188/41
- Analog pressure with RMC, ASBX or MMC 188/41

Distance to magnetostrictive transducer

- up to 100 feet
- up to 1000 feet with AMP/10 signal amplifier

SOFTWARE

DCSMON Setup, diagnostic, and troubleshooting software with graphic display of motion profile -- Included with each module at no charge

Event Control Firmware 255 step table which repeatably executes profiles with 2ms between steps

SENSING

CS-2 Color Scanner Solid-state self-contained scanner with 50 μ s sensing time
Color range: aqua-blue to near-infrared

TRAINING

Application training available in your plant or ours
Contact Delta for more information

FIELD SERVICE

Experienced application engineers available for field service
Contact Delta for more information

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