

NavLink®

MC-1 Monitor and Control Module



TIDELAND SIGNAL CORPORATION

MC-1, a multi-purpose remote monitor and control device, is the central hardware of the NavLink® system. MC-1 collects and forwards data to the NavTerm® software at headquarters location. MC-1 interfaces with Tideland Signal AtoNs and with its multiple input and output format is capable of monitoring and controlling non-Tideland AtoN equipment.

FEATURES:

- **MONITOR AND CONTROL** – Tideland can configure the MC-1 to monitor any combination of external connections (analog and digital inputs/outputs) and attach its aids to navigation devices up to its built-in limits. All configured input connections can be field selected to report on exceptions with Authority configurable warning and alarm parameters.
- **TWO ENCLOSURES** – MC-1 is available in a fiberglass-reinforced enclosure for use when located in environmentally protected locations. A stainless steel enclosure is available for service in severe weather locations. The stainless steel enclosure is suited for locations where the MC-1 electronics need shielding from possible damaging electromagnetic fields. Enclosures are weather tight and corrosion resistant.
- **BUILT-IN LIGHTNING PROTECTION** – All MC-1 circuitry is lightning protected and supplied with earth-ground terminals.
- **INPUTS/OUTPUTS** – Eight analog input and sixteen digital channels are available for general monitoring use. Eight digital output channels are available for control of non-Tideland devices.
- **NINE COMMUNICATION CHANNELS** – MC-1 is able to handle any communications need at the AtoN.
- **IN-THE-FIELD DIAGNOSTICS** – NavLink's Field Configuration Utility (FCU) allows for setup, upgrades, diagnosing and fault finding of the MC-1 and its devices in the field using a laptop computer.



Communication Modules

The NavLink communication modules serve as the hardware level port between the AtoN monitoring system and monitor and control location and/or Authority base station. Communication modules support the following mediums: VHF/UHF, dial-up modem, IP, direct, cellular telephone, satellite or AIS information system.

SPECIFICATIONS

Communication Channels

RS-232 4 channels
 ASCII Sync 3 channels
 RS-485 2 channels

Analog Inputs Eight (8); 0 to 40 VDC, 10-bit conversion resolution;
 input impedance – 90k ohms

Digital Inputs Sixteen (16); 0 to 40 VDC (0 to 25 VAC);
 input impedance – 5k ohms

Digital Outputs Eight (8); 0 to 40 VDC; 100 ma

Power

Input Voltage 9 to 36 VDC
 Input Power 1 watt max

Temperature Range -40°C to +70°C

Fiberglass Enclosure

Protection IP66
 Height 493 mm (19.2 in)
 Width 385 mm (15.0 in)
 Depth 211 mm (8.2 in)
 Weight 9 kg (19.8 lb)

Stainless Steel Enclosure

Protection IP66
 Height 478 mm (18.6 in)
 Width 408 mm (15.9 in)
 Depth 160 mm (6.2 in)
 Weight 13 kg (28.7 lb)

NOTE: Specifications are subject to change.



TIDELAND SIGNAL CORPORATION CORPORATE HEADQUARTERS

P.O. Box 52430
 Houston, Texas 77052-2430, USA
 4310 Directors Row
 Houston, Texas 77092 USA
 PH: + 1 713-681-6101
 FAX: + 1 713-681-6233
 E-MAIL: hq@tidelandsignal.com

P.O. Box 52370, O.C.S.
 Lafayette, Louisiana 70505-2370, USA
 PH: + 1 337-269-9113
 FAX: + 1 337-269-9052
 E-MAIL: lafayettesales@tidelandsignal.com

TIDELAND SIGNAL CANADA LTD.
 #2170–21331 Gordon Way
 Richmond, B.C., Canada V6W 1J9
 PH: + 1 604-247-0988
 FAX: + 1 604-247-0987
 E-MAIL: sales@tidelandsignalcanada.com

TIDELAND SIGNAL PTE. LTD.
 Crystal Time Building
 16 Tannery Lane #04-00
 Singapore 347778
 PH: + 65 6333-0078
 FAX: + 65 6333-0079
 E-MAIL: sales@tidelandsignal.com.sg

TIDELAND SIGNAL LIMITED
 Unit B, Kendal House
 Victoria Way
 Burgess Hill, Sussex, RH15 9NF, UK
 PH: + 44 (0) 1444 872240
 FAX: + 44 (0) 1444 872241
 E-MAIL: sales@tidelandsignal.ltd.uk

TIDELAND SIGNAL LTD. (UAE)
 FZS1 BB03, JAFZA South
 Jebel Ali Free Zone, Dubai, U.A.E.
 PH: + 971 4-886-0180
 FAX: + 971 4-886-0181
 E-MAIL: sales@tidelandsignal.ltd.uk

WEB SITE: www.tidelandsignal.com



Tideland Signal Corporation maintains ISO 9001:2000 accreditation. It is company policy to provide products and services that meet the highest standards of quality in the industry.

Membership Organisations



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