

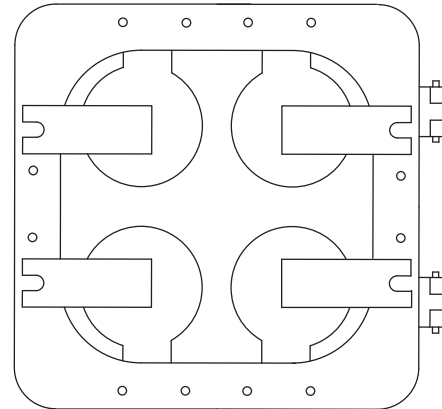
MCM

MULTIPLE CONTROL MODULE

For HMB-4 Hydraulic Monitor

NDD330

- Facilitates the Use of Multiple REC Joysticks Located in Different Operator Stations
- Allows System to be Expanded to Maximum of 3 Separate Control Stations
- Stations Are All Live at All Times Without Loss of Functionality When One Station is in Primary Control of System
- NEMA 4x or NEMA 7 Explosion Proof Enclosures



Description

The National Foam MCM Multiple Control Module is part of the HMB-4 Remote Controlled Monitor System. The MCM unit is required when the hydraulic monitor system is controlled from more than one Remote Electric Control Station (REC). It is available with a watertight or an explosion proof/watertight enclosure.

Features

- Compact and simple design.
- Prevents damage to HPCM solenoids caused by conflicting signals from two control locations
- Accepts signals from up to three control locations
- Operation from one control station does not lock out operation from another
- Has provision for control signal for operation of a monitor supply valve

Applications

Part of HMB-4 Remote Control Monitor System, which in addition to the MCM multiple control module, consists of the following: the model HMB-4 remote control monitor (Data Sheet NDD300), the HPCM-1-EX hydraulic power control module (NDD310), and the model REC remote electric control station (NDD320).

Specifications

The MCM Multiple Control Module shall prevent opposing operation function signals from reaching the Hydraulic Power Control Module (HPCM) in the event of simultaneous REC operation. The MCM shall have relays which allow the first function command to reach the HPCM, but blocks a second conflicting command. The unit shall consist of eight relays and four terminal strips mounted on a printed circuit board. Three terminal strips shall accept signals from control units (REC) and one shall send signals to HPCM. A relay shall be provided for each control signal which shall lock out any opposing signal. The lock out shall effect only the function initiated thereby allowing all other functions to be initiated from any control station. The MCM unit shall also be capable of accepting a control signal for a monitor supply valve. Operational voltage shall be 115VAC, 60 Hz and shall be supplied from the HPCM.

The MCM shall be supplied standard in a fiberglass enclosure rated NEMA 3, rain-tight and NEMA 4X, watertight and corrosion resistant. It is also available in a cast aluminum, explosion-proof enclosure rated, NEMA 7 (Class I, Group D), NEMA 9 (Class II, Groups E & G); NEMA 3 (rain tight) and NEMA 4 (watertight). Enclosures shall have a red polyurethane finish. The unit shall be factory assembled and tested requiring only field connection of control wiring.

Technical Data

Electrical Data:

Relays (8):
1/60/120 VAC (1/50/110V dual rated), 1.2 VA (120V), .4 VA (110V) per relay

Enclosure Ratings:

NEMA 3 rain-tight; NEMA 4X watertight, corrosion resistant

Explosion-proof; NEMA 7 (Class I, Group D) and NEMA 9 (Class II, Groups E & G); NEMA 3 rain-tight; NEMA 4 watertight

Material of Construction:

Enclosure:

NEMA 4X: Fiberglass
Explosion-Proof: Cast Aluminum

Hardware:

Stainless Steel, ASTM A276 or Galvanized

Weight: 122 lbs. (55 kg)

| ORDERING INFORMATION | |
|----------------------|------------------------------------|
| Part Number | Description |
| 1237-4102-8 | MCM-N4, Water-Tight |
| 1237-4102-9 | MCM-EX-N4, Explosion-Proof |
| ASSOCIATED PRODUCTS | |
| NDD300 | HMB-4 Hydraulic Monitor |
| NDD310 | HPCM-1-EX Hydraulic Control Module |
| NDD320 | REC Remote Electric Control |

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