External Remote Controller - Series X Displays

Description:
The remote controller enables the control of Series X (12 to 55 inch) Displays by providing instant keypad functionality over RS-485/422 bus through the well implemented SCOM Protocol by Hatteland Display. A single press on the remote controller will trigger the same physical press on all connected/configured displays with the synchronized reaction of corresponding button presses. The remote controller is a panel-less device, which only provides three physical buttons for user interaction, but conforms with the standardized 6 button functionality; (Brightness+, Brightness-, Menu, Navigation<, Navigation> and Power).
Remote Control is powered and driven by first Display unit (which has to be connected to external power cable/source. It is not required to turn the Display unit on for the Remote Control to control/operate other Display units that may be in the same chain).

Specifications:
- **Connector**: 1 x 6-pin Terminal Block 3.81, non-isolated
- **Mounting**: Includes mounting bracket with 2 x PanHead M3x6mm (Tightening Torque 0.8 Nm) and 2 x Thumb Fastening screws for console mounting.
- **Physical Dimensions**: W:125.00 [4.92”] x H:37.50 [1.48”] x D:72.30 [2.83”] mm [inch]
- **Connectivity**:
  - Shipped with 1 x 6-pin Terminal Block 3.81 loose connector.
  - Connect Remote Control to first display unit, other units in connection chain will receive same commands.
  - Suggested max units in chain: 16 (based on COM specification).
  - See page 2 for Physical Wire Connections.
- **Test and certificate**: Hatteland Display standard, (tested / type approved by the following classification societies): IEC 60945 4th (EN 60945:2002), IACS E10, Approved option within EU-RO-MR.

Illustration and Pinning:

**6-pin Terminal Block**
"Remote Control - RS-422/RS-485 SCOM"

| PIN 01 | +5V | +5V In |
| PIN 02 | GND | Ground |
| PIN 03* | RxD- | Receive Data Negative |
| PIN 04* | RxD+ | Receive Data Positive |
| PIN 05* | TxD- | Transmit Data Negative |
| PIN 06* | TxD+ | Transmit Data Positive |

*Pin 3, 4, 5, 6 = RS-485 Full Duplex (4-wire)

Dimensions might be shown with or without decimals and indicated as mm [inches]. Tolerance on drawings is +/- 1mm. For accurate measurements, check relevant DWG file.
Physical Wire Connections:
Use loose Terminal Block Connectors from Package of Contents that followed the Series X Display (MMD/STD) unit and the HD REM SX1-A1 Remote Control.

Cables and Cable length must be provided by customer.

Creation/cabling illustrates a 2 unit setup. Max 16 units.

4 Main Modes:
- **Menu Mode:**
  - Send Nav <
  - Send Nav >
  - Send Menu
  - Send Power OFF
  - Send Power ON

- **Initialization Mode:**
  - Send BRT Broadcast

- **OFF Mode:**
  - Hold > 10 [s]
  - Hold > 5 [s]
  - Hold > 3 [s]

Menu Mode:
*If chosen mode is set to "Menu Mode" and communication mode RS-485 (+wire) the Display Unit’s RS adress must be set to "0" once in order to operate as intended. Two ways are possible, either by OSD or by SCOM. Only the unit with address '0' allows OSD Menu control over remote controller. The units with other addresses do not support OSD menu control. Normally, the address of each unit on the same bus, has to be unique.

Via OSD Menu (Full Menu Mode OSD must be enabled to access this function):
  - Go to "Management Settings/Communication/Address RS/" and set value to "0".

Via SCOM Command:
  - Send Bytes (shown here as HEX, 30= value "0"): 07 FF 4D 43 43 02 24 BB 30 14

3 x 2 Button Config (total 6):

- On Down: action on button press down
- Hold: button is pressed down and hold in this position
- Click: button was pressed down and released