The master dimming unit cDev-DIM supports the central dimming of navigation devices via the NMEA-DDC message according to IEC 61162. 2 DIM variants are available to cover the dimming steps of different manufacturers: Absolute dimming with 0-99% over all times of day and standardized and limited dimming within a predefined brightness range for selected NIGHT, DUSK and DAY modes.

**HIGHLIGHTS**

**NMEA protocol**
- Transmission of normalized values for NIGHT - DUSK - DAY
- Triggering of proprietary functions such as DAMP and TEST
- Integration of PC-supported navigation devices (e.g. ECDIS)

**Cascadability**
- Up to 8 DIM panels can be interconnected synchronously
- Connection of any number of displays via NMEA multiplier
- Transmission of dimming changes of connected PCs

**Variants & designs**
- 6 function variants available (key assignment, rotary knob)
- Various design variants (font, panel colour, LED colour)
- Realization of OEM designs according to specifications
Function

The central DIM master cDev-DIM can receive DIM signals and forward them or create them yourself. Of course it also dims its own light sources accordingly. Depending on the wiring variant, it can be operated as a stand-alone unit, or extended for dimming several devices via an internal DIM bus or supplemented with a multiplier. Output channels of the DIM master can be assigned twice, brightness standards for ECDIS and navigation displays are complied with.

Technical Data

- **Power supply:** 9-36 V (DC), polarity reversal protected
- **Operating temperature:** -15 °C ... 55 °C
- **Storage temperature:** -25 °C ... 55 °C
- **Housing:** 96x96 mm² for panel mounting
- **Protecting class:** IP22 (panel, front side)
- **Brightness control:** 0-99% via incremental encoder or via DDC input message
- **Transmit data:** 4x NMEA-DDC, 4.800 Baud
- **Receive data:** 1x NMEA-DDC, 4.800 Baud
- **Internal bus:** 1 x RS484, bidirectional serial bus
- **LED display:** 10 LEDs for brightness indication (optional display damping time)
- **Wiring signal supply:** Plug connector (J2-13pol) with and without ferrules with up to 1.5 mm².
- **Wiring power supply:** Plug connector (J1-2pol) for wire end ferrules with up to 2.5 mm²
- **Approvals:** DNV GL type test according to IEC 60945; IEC 61162-1 (NMEA)