



The Schröder ITERRA NEMA NODE is the base communication module of the ITERRA control system that converts a wired DALI signal into BLE wireless communication in a mesh network.

The node offers a solution to seamless control for sports lighting through a mesh Bluetooth™ 4.0 network. Each control node stores information about its configuration and the configuration of the rest of the network. The mesh network provides a high level of robustness and simplifies the replacement of control nodes as programming them is not required. Electrical connection and mechanical mounting are achieved by tool-free twist and lock on a standard NEMA 7-pin socket (ANSI 136.41).

Configuration and control can be managed from a mobile phone or tablet using the free Schröder ITERRA mobile App, available for iOS and Android devices. Adding a node to the network is done individually using the mobile App within a range of one unit (up to 100m) from the mesh network. To control the nodes, it is only necessary to be within the scope of one of them and use the Schröder ITERRA mobile App or a Schröder ITERRA PRESS remote control. When a node receives a firmware update, it is automatically retransmitted to the other ones (up to 250 nodes per network). Communication security is provided by encrypted messages. Various communication profiles can be configured to match the luminaire requirements.

The primary use is to control outdoor lighting applications (IP 66 UV-resistant enclosure), although indoor applications are also possible.

## KEY ADVANTAGES

- > **Cost-effective: one node can control up to 8 DALI drivers**
- > **Scalable: a Schröder ITERRA network can manage up to 250 nodes**
- > **Wireless mesh: network coverage of up to 100m between nodes. The nearest node acts as a communication gateway with the other ones.**
- > **Operating DALI data available for each node**
- > **Controlled by the Schröder ITERRA App and PRESS remote control**

### DIMENSIONS AND MOUNTING

Dimensions Øxh (mm   inch)	81.2x75.4   3.2x3
Weight (gr   oz)	150   5.3
Mounting	Twist and lock on a NEMA 7-pin socket (ANSI C136.41)

### GENERAL INFORMATION

Recommended installation height (m   ft)	5   16.4
CE mark	Yes
LvD	Yes
Reach	Yes
ReD	Yes
RoHS	Yes
UL	Pending

### HOUSING AND FINISH

Housing	Polycarbonate (anti-UV treatment)
Standard colour	Semi-transparent black
Tightness level	IP 66 (with hydrophonic vent)
Impact resistance	IK 09
Working temperature	-40°C to +80°C   -40°F to +176°F

### ELECTRICAL INFORMATION

Electrical class	Class II EU
Nominal voltage	110-240V AC - 47-60Hz
Power consumption	Idle mode: <0.8W@230VAC With 1 DALI device: <1W@230VAC
Output control interface	DALI/DALI-2 according to IEC 62386-101, -102, -201, -203, -207, -250, -251, -252, -253 (pending)
Bus voltage	16V DC
Bus current	100mA max.

### EMC AND IMMUNITY

Electromagnetic compatibility (EMC)	EN 55015:2013, EN 61547:2011, EN 61000-3-2, 3-3, EN 301489-1, -17
Surge protection	L-N: 0.5kV N-PE: 2kV L-PE: 2kV

### RADIOFREQUENCY SPECIFICATIONS

Communication interface	Bluetooth 4.0 Low Energy (BLE)
Frequency range	2402-2483 MHz
Network type	Self-healing, frequency-hopping, spread-spectrum mesh technology
Max. transmission power	+4dBm
Wireless class	Class 2

### COMMUNICATION FEATURES

Data security	AES128 bit encryption + elliptical cryptography
Firmware update	OTA (over the air)
Real-time counter	Update with the Schröder ITERRA mobile application
DALI information	Real-time updating of the following DALI info through the App: device type, total energy, resettable energy counter, active power, system on time, luminaire on time, mains voltage, mains current.
Network coverage	< 100m between two nodes, depending on installation height and presence of obstacles

### SAFETY

Luminaires	EN 61347-1:2016 & EN 61347-2-11:2003
Protection	Line overvoltages, surge, temperature