

**IP65**
**4-20 mA  
0-10 V**
**RS485  
Modbus**


## Lumber moisture transmitter E2353

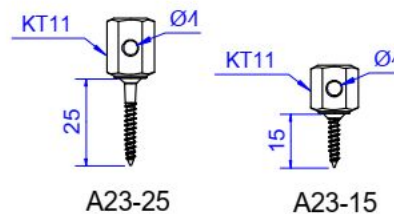
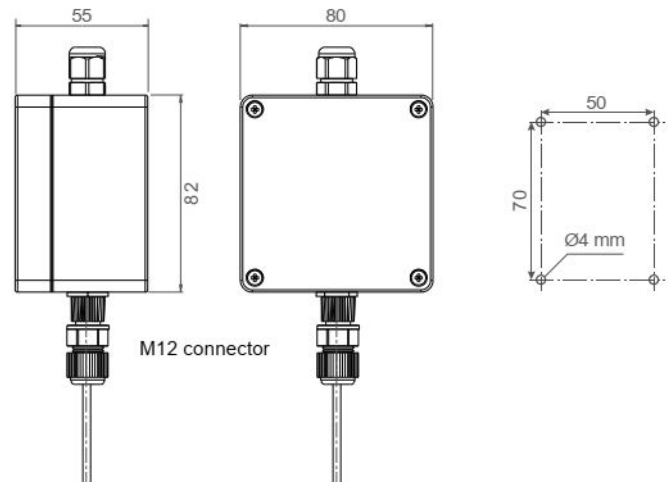


### Features

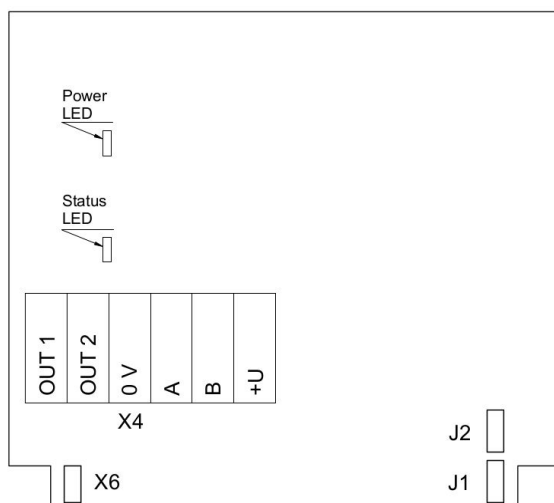
- Robust stainless screw electrodes
- Automatic temperature compensation
- 0-10 V and 4-20 mA outputs
- RS485 Modbus RTU interface

### Specifications

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Measurement method   | Conductivity measurement<br>with screw electrodes                                     |
| Measurement range    | 7...20 %H <sub>2</sub> O                                                              |
| Resolution           | 0,01 %H <sub>2</sub> O                                                                |
| Accuracy             | < ±1 %H <sub>2</sub> O                                                                |
| Response time        | ~15 seconds                                                                           |
| Power supply         | 11...30 VDC, nominal 12/24 VDC                                                        |
| Power consumption    | < 0,5 W                                                                               |
| Digital interface    | RS485, Modbus RTU protocol                                                            |
| Analog outputs       | 2 × 4-20 mA / 0-10 V, user settable                                                   |
| Fieldbus interface   | RS485, Modbus RTU protocol                                                            |
| Enclosure            | Grey ABS, wall mount,<br>protection class IP65                                        |
| Dimensions           | H82 × W80 × D55 mm                                                                    |
| Operating conditions | -40...+85 °C, 0...100 %RH                                                             |
| Cable connection     | Industrial M12 connector, IP68                                                        |
| Electrode cable      | FEP insulated, -50...+200 °C,<br>Thermocompensated,<br>2 connectors Ø4 mm, L5/10/15 m |
| Screw electrodes     | Stainless steel, hex KT11,<br>hole Ø4 mm for connector<br>length 15 / 25 mm           |



## Connection diagram



PCB without PSU and relays

### Jumpers

- J1** OUT1 type (open: 4-20 mA; closed 0-10 V)  
**J2** OUT2 type (open: 4-20 mA; closed 0-10 V)  
**X6** Reset Modbus network parameters to default

### X4 terminals

- OUT1** 4-20 mA / 0-10 V output  
**OUT2** 4-20 mA / 0-10 V output  
**0V** 0 V / 24 VAC Neutral (optional)  
**A** RS485 A / Data +  
**B** RS485 B / Data -  
**+U** +24 VDC / 24 VAC Phase (optional)