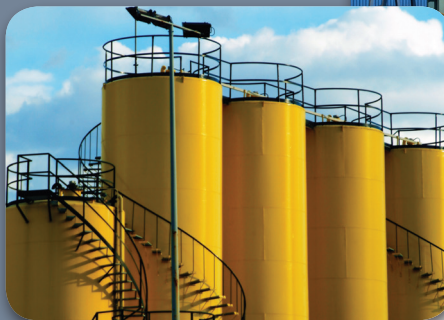


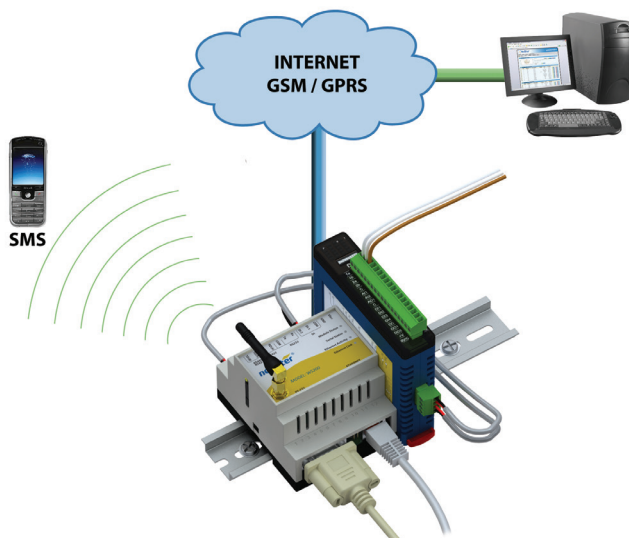
## Netbiter® I/O Extenders

The Netbiter® I/O Extender series is a collection of analog and discrete I/O modules with Modbus-RTU protocol communication. The modules are ideal for a wide variety of distributed I/O applications including data acquisition and control, process monitoring as well as test and measurement. Designed for industrial applications, the DIN rail mountable Netbiter I/O extenders can be connected in parallel with other Modbus equipment in a multi-drop installation topology.



- ✓ Modbus RTU Slave with RS-485 communication
- ✓ Fully compatible with Netbiter EasyConnect and WS series for communication over Ethernet, GSM and GPRS
- ✓ Screw terminals for wiring
- ✓ LED Indicators
- ✓ DIP switch for Modbus address setting
- ✓ DIP switch to set module to known communication parameters
- ✓ DIN rail mounting

When using the Netbiter I/O extenders together with the Netbiter EasyConnect and WS series gateways, it is possible to monitor/control the I/O signals over Ethernet LAN's, Internet or GSM/GPRS networks. This makes a powerful solution for remote monitoring and control, alarm management and data logging of I/O's.



HMS provides a full 3 year product guarantee from date of shipment.

| TECHNICAL SPECIFICATIONS                                                                                   |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Order code                                                                                                 | IOX-DAIO                                                                          | IOX-8DIO                                                                          | IOX-4RO                                                                           | IOX-6RTD                                                                            | IOX-8IV                                                                             | IOX-8AIS                                                                            |
| Power supply Isolated between field and logic                                                              | 12-24 V DC                                                                        | 12-24 V DC                                                                        | 24 V DC                                                                           | 12-24 V DC                                                                          | 12-24 V DC                                                                          | 12-24 V DC                                                                          |
| Operating temperature                                                                                      | -10 °C to +50 °C                                                                  | -10 °C to +50 °C                                                                  | -10 °C to +50 °C                                                                  | -10 °C to +50 °C                                                                    | -10 °C to +50 °C                                                                    | -10 °C to +50 °C                                                                    |
| Dimensions W×H×D                                                                                           | 23 × 109 × 98 mm                                                                  | 23 × 109 × 98 mm                                                                  | 23 × 109 × 98 mm                                                                  | 23 × 109 × 98 mm                                                                    | 23 × 109 × 98 mm                                                                    | 23 × 109 × 98 mm                                                                    |
| Mounting                                                                                                   | DIN rail                                                                          | DIN rail                                                                          | DIN rail                                                                          | DIN rail                                                                            | DIN rail                                                                            | DIN rail                                                                            |
| Serial baud rate                                                                                           | 2 400 to 115 200                                                                  | 2 400 to 115 200                                                                  | 2 400 to 115 200                                                                  | 2 400 to 115 200                                                                    | 2 400 to 115 200                                                                    | 2 400 to 115 200                                                                    |
| Connectors                                                                                                 | 4/18<br>Screw connector                                                           | 4/18<br>Screw connector                                                           | 4/18<br>Screw connector                                                           | 4/18<br>Screw connector                                                             | 4/18<br>Screw connector                                                             | 4/18<br>Screw connector                                                             |
| Digital input                                                                                              | 4                                                                                 | 8                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   |
| Digital output                                                                                             | -                                                                                 | 8                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   |
| Relay output                                                                                               | 2                                                                                 | -                                                                                 | 4                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   |
| Analog inputs<br>Voltage 0-10 V DC <sup>1</sup> or<br>Current 0(4)-20 mA <sup>2</sup><br>12 bit resolution | 2                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | 8 <sup>1</sup>                                                                      | 8 <sup>2</sup>                                                                      |
| Analog output<br>Voltage 0(2)-10 V DC<br>Current 0(4)-20 mA<br>12 bit resolution                           | 1                                                                                 | -                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   |
| RTD inputs 2 or 3 wire<br>100 ppm/°C Typ. drift                                                            | 2                                                                                 | -                                                                                 | -                                                                                 | 6                                                                                   | -                                                                                   | -                                                                                   |
| RTD Types                                                                                                  | PT100/Ni120/<br>PT1000/Ni1000/<br>Resistance                                      | -                                                                                 | -                                                                                 | PT100/Ni120/<br>PT1000/Ni1000/<br>Resistance                                        | -                                                                                   | -                                                                                   |
| Counters<br>32 bits on the digital inputs                                                                  | 4                                                                                 | 8                                                                                 | -                                                                                 | -                                                                                   | -                                                                                   | -                                                                                   |
| Certifications                                                                                             | CE                                                                                | CE                                                                                | CE                                                                                | CE                                                                                  | CE                                                                                  | CE                                                                                  |

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