

Data Collection Systems

OPUS200i/300i - 2 to 300 Channel Datalogger, Modular Technology

2 channel datalogger and transmitter specially for applications in industry, with the following characteristics:

- Universal connection options for all types of industrial sensor
- Electrical output isolation
- Configurable current output
- High accuracy
- CAN-Bus networking with up to 150 additional modules

Input channels as per OPUS200/300

| Technical Data | Order No. |
|---|--|
| OPUS 200i datalogger | 8161.00 |
| OPUS 300i datalogger | 8161.10 |
| Dimensions | 160x50x45mm |
| Sampling interval | 0.1/1/10/30/60s - each channel is adjustable separately |
| Alarm output | 0.5 A/30V - 500,000 cycles per lifetime 0.3 A/30V - 1,000,000 cycles per lifetime - relay |
| Design | Plastic housing |
| Output current | 0/4...20mA |
| Data memory | Max. 30,000 measurements per channel |
| Display | 2 lines - 8 characters - readable down to -20°C |
| Weight | 200g |
| Isolation voltage supply/input | 500V max. |
| Storage temperature | -30...70°C |
| Interface | RS232 serial interface with CTS and RTS 19,200 Baud |
| Protection Class | IP42 - with covers |
| Power supply | 20...30VDC - typically 24V - mains operation |
| Recording interval | 0.1/1/10/30/60s - 1...1440min - each channel is adjustable separately |
| Recording options | Average-Min.-Max. - any desired combination possible |
| Connection system | COMBICON Phoenix, gold contact |
| Current consumption - in operation | <100mA/24V |
| Current | |
| Measurement range | 0...20 mA, 4...20 mA |
| Accuracy | 8161.00: ±0.1% of measurement value + 0.02% of end value Temperature coefficient ±25ppm/°C |
| | 8161.10: ±0.05% of measurement value + 0.02% of end value Temperature coefficient ±5ppm/°C |
| Measurement range resolution 0...20 mA | 5 µA |
| Measurement range resolution 4...20 mA | 10 µA |
| Included in scope of supply | SmartControl software |
| Permissible operating temperature range | 8161.00 -30...60°C |
| Permissible operating temperature range | 8161.10 -20...40°C |
| Permissible relative humidity | 0...95% RH |
| Accessories | Order No. |
| Com-server | 8156.SER |



Modular design
 Extendable up to 300 channels
 CAN-Bus networking
 Central or on-site control
 Electrical output isolation of modules
 Analog output 4...20 mA
 SmartControl software included