The PICO controller V3 and PROFIBUS communicator allow you to program and control complex dispensing tasks using the PROFIBUS communication protocol. The controller and communicator integrate seamlessly with your PICO dispensing system, including the PICO Driver DCON and PICO valves, to allow centralized control of all operating parameters through your HMI (human machine interface), PLC (programmable logic controller), or personal computer. Operating parameters can be changed locally at the PICO controller, or they can be viewed, changed, and documented via PC or PLC using the PROFIBUS communication protocol. Additional features include the ability to block local changes to the PICO controller parameters, a container low-level status indication, and an emergency off input for immediate or near-term stoppage of the dispensing process.

**Benefits**
- PROFIBUS communication protocol allows broadly distributed fieldbus communication for your PICO dispensing system
- Included PROFIBUS project for SIEMATIC 315-DP2 CPU simplifies connection to your internal PROFIBUS project
- Convenient and centralized PC or PLC control of all parameter settings means more efficient operation
- Application results are maintained over time with a high degree of precision
- Ability to document all operating parameters and to prevent local changes by operators increases operational reliability

**Features**
- PROFIBUS communication capability allows the PICO controller to function as a PROFIBUS DP slave
- Up to 99 lines of programming are possible, with various pulse/pause times per channel
- Parameters can be changed locally at the controller, through an SD card or PC, or through a PLC/HMI
- Local parameter setting is fast using the four-language menu and one-button control
- Integrated SD card reader/writer for reading/safeguarding the dispensing parameters
- All channels work independently
- The controller can be integrated into a system or, with the optional housing, used as a tabletop device
- Several programming lines can be linked to a program block, allowing the execution of complex dispensing jobs with a single trigger signal
- Programmed lines and blocks can be activated using either a short trigger signal or a continuous signal through binary input or PROFIBUS communication
PICO Controller Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>PICO Controller</th>
<th>PROFIBUS Communicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>142W x 129H x 171D mm (5.6W x 5.1H x 6.7D”)</td>
<td>27W x 120H x 75D mm (1.1W x 4.7H x 3.0D”)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.5 kg (3.3 lb)</td>
<td>0.15 kg (0.33 lb)</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>24 VDC, +/-10%</td>
<td>24 VDC, +/-10%</td>
</tr>
<tr>
<td>Number of channels</td>
<td>Two, upgradeable to four</td>
<td>–</td>
</tr>
<tr>
<td>Ambient temperature during operation</td>
<td>+5 to 50 °C (41 to 122 °F)</td>
<td>-25 to +55 °C (-13 to +131 °F)</td>
</tr>
<tr>
<td>Maximum relative ambient humidity during operation</td>
<td>80%</td>
<td>95%</td>
</tr>
<tr>
<td>Enclosure</td>
<td>Plug-in cassette for 19” chassis, aluminum, anodized black (optional housing for tabletop use available)</td>
<td>Top-hat rail, protective grounding via top-hat rail adapter</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP20</td>
<td>IP20</td>
</tr>
</tbody>
</table>
| Inputs                        | • 10 binary trigger inputs per channel (IN1–IN10), for bounce-free 0/24V  
  • Binary emergency-off input per channel, 0/24V  
  • Analog input for variable pause time per channel, 0–10V  
  • CAN bus connection | PROFIBUS bus |
| Outputs                       | • Binary temperature status signal per channel, 0/24V  
  • Binary error status signal per channel, 0/24V  
  • Binary lines end status signal per channel, 0/24V  
  • Binary device ready status signal per channel, 0/24V | CAN bus |
| Pulse/cycle times             | • Pulse time: 0.050–9999.990 ms  
  • Cycle time: (pulse time + 0.120 ms)–9999.990 ms  
  • OR pulse time + variable pause time  
  • Parameter setting increment: 10 μs  
  • Precision: better than 5 μs | – |
| Certification                 | CE [2004/108/EG (EC)] | CE [2004/108/EG (EC)] |

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