

Analog Control Unit

Seamlessly connects to your refractometer and delivers key measurements
– Refractive Index (RI), Concentration, and Temperature –
with selectable analog (4-20mA) and digital outputs



SPECIFICATIONS

Analog Control Unit

Item Number
350006

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|----------------|--|
| Internal ports | 4-pin sensor connection iCS ² / iPR EX (1,5 m cable included) Power supply (2 m cable included) Analog output (2 x 4 - 20 mA) for RI, scale, temperature selectable 6 configurable digital outputs RI, scale, temperature selectable |
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| Display | (2-line LCD Display) for measurement results: display of RI, temperature, scale |
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| Buttons | 6 for Configuration analog/digital outputs and 1-point calibration (sensor zero with water) |
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| Power supply | 100 - 240 V AC |
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| Current consumption | max. 0.88 A |
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| Dimensions | 38.4 x 31.9 x 14.4 cm |
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| Mounting | 4 holes 21 x 25.5 cm |
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| Digital Outputs | |
| Type | relay (NO) |

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|------------------------|--------------------------------|
| Switching capacity | |
| AC | 5 A, 250 V AC (resistive load) |
| DC | 3 A, 30 V DC |
| Load current at 5 V DC | min.10 mA |

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|---|--------------------------|
| Service life, electrical | |
| AC | 200,000 switching cycles |
| DC | 100,000 switching cycles |
| Galvanic isolation against other circuits | 2830 V, in groups of 2 |
| Galvanic isolation between output groups | 1780 V |

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| Analog Output | |
| Output Signal | 4 - 20 mA |
| Basic error | max. ± 0.5 % |
| Temperature influence | ± 0.05 % / 10 °C |
| Resistive load, max | 500 Ω |
| Inductive load, max | 50 μ H |
| Signal conversion time | 100 ms |
| DAC resolution | 10 bit |
| Galvanic isolation against other circuit | 2830 V |



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Schmidt + Haensch GmbH & Co.

Waldstraße 80-81, 13403 Berlin, Germany
Tel: + 49 (0 30) 417072-0, Fax: + 49 (0 30) 417072-99
sales@schmidt-haensch.de, www.schmidt-haensch.com



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