

SCU-800 turbomolecular pump control unit

The fully-digital SCU-800 turbopump control unit is compatible with STP turbopumps, ranging from 300 l/s to 1600 l/s. New Vibration Reduction System (VRS) technology reduces vibration levels, and the advanced maintenance warning functions enable intelligent maintenance scheduling.

The SCU-800 provides reliability, enhanced communication and pump compatibility with reduced back-up unit requirements and minimised overall cost of ownership.



Features and benefits

- Advanced pre-maintenance function
 - Service port in front panel
 - Precise maintenance timing
 - Two-stage warning messages
 - Rotor imbalance monitoring
 - Back-up bearing damage monitoring
 - Self-diagnostic functions
- Universal controller
 - Digital communications
 - For STP603/1003, STP-H301/451/803/1303 and STP-A803/1303/1603 pump models
- Low vibration
 - Vibration Reduction System (VRS)
 - Auto Balancing System (ABS)
- Various communication
 - I/O remote
 - RS232/485
 - Lonworks (option)
 - Profibus (option)
- Compact Construction
 - Small footprint
 - Half-rack controller
- Certifications
 - SEMI® compliant, CE marked, UL listed and RoHS directive compliant

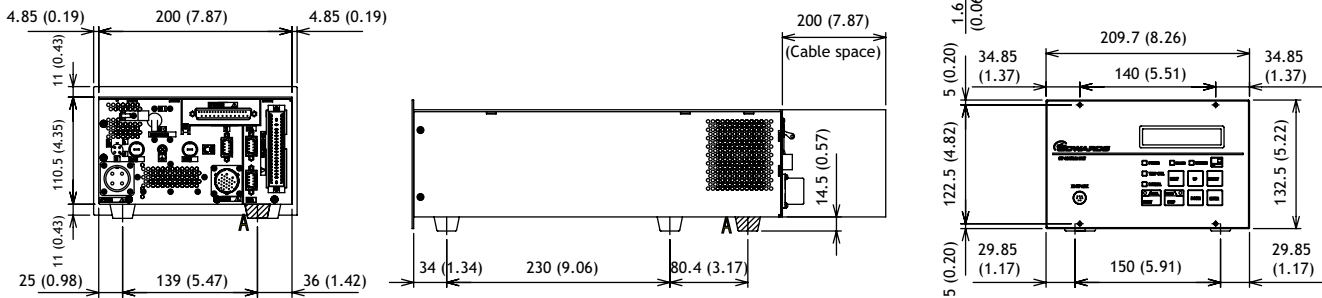
Technical data

Specifications

| | |
|---|--|
| Magnetic bearing control system | Digital control |
| Input voltage | 100-120 +/- 10% VAC / 200-240 +/- 10% VAC* |
| Power consumption | |
| without Temperature Management System (TMS) | Max 850 VA |
| with TMS | Max 1200 VA |
| Input frequency | 50/60 +/- 2 Hz |
| Leak current (maximum) | 3.5 mA |
| Main breaker rated current | 15 A |
| Allowable ambient temperature | 0-40 °C (32-104 °F) |
| Storage temperature | -25 - 55°C (-13 - 131 °F) |
| Mass | 9 kg (26.4 lb) |
| TMS control unit | Built-in |
| Serial communication function | Standard (RS232/RS485) |
| Operation switch | Start, Stop, Reset, Select, Up, Down, Enter, Manual/remote |
| Panel display | LCD |

* 100-120 V is available for STP-H301, STP-H451, STP-603 and STP-1003 only

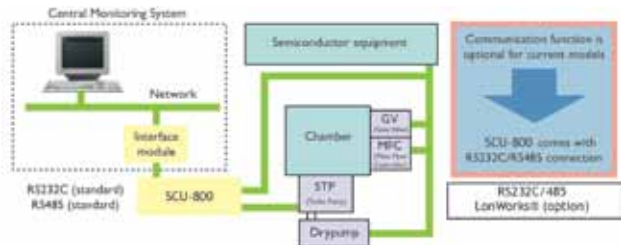
Dimensions



Ordering information

YT4922Z00 SCU-800 Control Unit
D39751500 Profibus Interface Module

Communication



Global contacts

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