

Renishaw Controller UCC S5



Category: Renishaw Controllers

UCC S5

5-axis scanning motion and head controller supporting the second generation REVO-2 measurement head

- Multi-sensor support:
 - Tactile touch-trigger and scanning
 - Non-contact vision measurement
 - Surface finish measurement
- Must be used in conjunction with a Renishaw SPA3 amplifier
- Uses an external power supply
- Manages full control of the REVO-2 head, CMM and probe signals, and communicates with the CMM's computer
- Has integral thermal error compensation (TEC) with support for 16 channels of temperature compensation
- Setup and commissioning should be completed through Renishaw's UCCassist-2 software

UCC comparison

- Standard specification

- Not available

Function / specification	UCC T3-2	UCC T3 PLUS	UCC S3	UCC T5	UCC S5
TP200 / SCR200 interface	■	■	■	-	-
SP600 interface	-	-	■	-	-
SP25M interface	-	-	■	-	-
SP80 interface	-	-	-	-	-
PH10 interface	-	■	■	-	-
PH20 interface	-	-	-	■	-
REVO interface	-	-	-	-	-
REVO-2 interface	-	-	-	-	■
Number of CMM axes controlled	3	3	3	3	3
Configurable additional axis (rotary table, dual scale, dual drive)	Second SPA3-2 required	Second SPA3-2 required	Second SPA3-2 required	Second SPA3-2 required	Second SPA3-2 required
SPA (servo power amp) compatibility	SPA3-2	SPA3-2	SPA3-2	SPA3-2	SPA3-2
Analogue SPA output ± 10 V	-	-	-	-	-
Temperature sensor inputs	-	16	16	16	16
Compatible with existing daughtercards	-	-	-	-	-
Maximum real time scanning data rate	-	-	SP25M: 2000 points/s	-	REVO-2: 4000 points/s
Integral ac power supply	-	-	-	-	-
External dc power supply	■	■	■	■	■
Uncommitted CMM I/O	2 inputs + 1 output	2 inputs + 1 output	2 inputs + 1 output	2 inputs + 1 output	2 inputs + 1 output
Function / specification	UCC T3-2	UCC T3 PLUS	UCC S3	UCC T5	UCC S5