

Renishaw Controller UCC S3



Category: Renishaw Controllers

UCC S3

Universal 3-axis scanning and touch-trigger automated head solution.

Powerful 3-axis CMM controller featuring built-in touch-trigger interface, TP200 interface, SP600 and SP25M interface, PH10 PLUS head controller and temperature compensation.

- Serving the 3-axis CMM market
- Suited to large and small CMMs using SP25M or SP600 scanning probes with PH10 PLUS
- Has integral thermal error compensation (TEC) with support for 16 channels of temperature compensation
- Must be used in conjunction with a Renishaw SPA3 amplifier
- Uses an external power supply and manages full control of the PH10 PLUS head, CMM and probe signals and communicates with the CMM's computer

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