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Renishaw CMM Products Division

PRODUCT BULLETIN – PBC1739

Product:	RCP TC-2	Status:	Open
Title:	RCP TC-2 available	Date:	03 July 2014

Originator: Gareth Puntis		Distribution: **Internal** ✔ **Subsidiaries** ✔
Reviewer: Brian Gow		**OEMs** ✔ **Distributors** ✔ **Retrofitters** ✔

Summary:

Renishaw is pleased to announce the launch of the RCP TC-2 temperature controlled change port which offers improved firmware and modified geometry for changing RSP3-6 probes. The new RCP TC-2 replaces the RCP TC which will now be made obsolete.

RCP TC-2 provides flexible, automatic, high speed changing between the full range of current REVO probes (RSP2, RSP3-# and SFP1), including the new RSP3-6 probe. It keeps these probes at operating temperature during storage so that the accuracy and repeatability of the system is maintained after a probe change. Like the legacy version of the product, it mounts directly to Renishaw's MRS rack systems as well as the forthcoming MRS2 rack systems.

In addition to the modified geometry that enables storage of RSP3-6 probes, RCP TC-2 has a firmware upgrade that improves error diagnostics and recovery.

In line with normal obsolescence practise, Renishaw will continue to support existing RCP-TC users with RBE cover. Legacy RCP TC units returned for RBE will be replaced with the new RCP TC-2 change port.

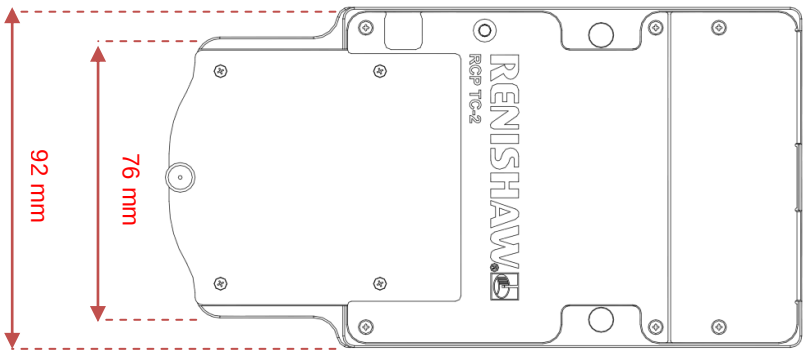
RCP TC-2 is now available for immediate delivery.

Please note: There is no change in list price between RCP TC and RCP TC-2.

Further details:

Design

While the length, width and finish of the RCP TC-2 are identical to those of the legacy version of the port, the geometry of the RCP TC-2 has been adapted to hold RSP3-6's counterweight arms. As seen in the diagram below, the port has been relieved by 8 mm on either side of the lid.



Firmware

The RCP TC-2 has new firmware to improve error diagnostic and recovery. This feature covers the port's power, probe availability, temperature state and system errors. The new firmware has been rigorously tested by Renishaw.

The new RCP TC-2 has a tri-status LED with the following status indications:

LED green – power on, probe present, temperature within target.
or
LED flashing green – power on, probe present, temperature outside of target.
or
LED amber – power on, probe not present, temperature within target.
or
LED flashing amber – power on, probe not present, temperature outside of target.
or
LED flashing red - terminal error, user should power off and reset.

User documentation

A new issue of the REVO user guide (H-1000-5129-05-A) is available containing details of RCP TC-2. This can be found at: www.renishaw.com/cmmguides.

Compatibility

RCP TC-2 is not available for selection in UCCsuite 4.7 and earlier. However, a software patch is available for UCCserver that makes the port backward compatible. With this patch the RCP TC-2 can be set-up as a legacy RCP TC. Information on this patch can be found on Renishaw's Knowledgebase via the link below:

RCP TC-2 automatic rack set up in UCCsuite 4.7 and earlier

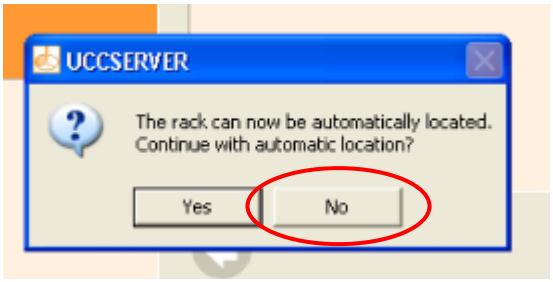
RCP TC-2 is fully supported from UCCsuite 4.8.

Setting up RCP TC-2 in UCCsuite 4.7 and earlier as a legacy RCP TC without the patch

The port can be set-up in older versions of UCCsuite as a legacy RCP TC without the patch, but the auto-alignment routine should not be used. If the auto-alignment is used, the port alignment will be incorrect, thereby resulting in a probe change failure.

Set-up procedure without the patch:

1. Locate the port as a RCP TC unit using the standard procedure.
2. Select **'No'** when the prompt below appears:



3. Following this, the port should be correctly set-up

Part numbers:

There is no change in the list price between RCP TC and RCP TC-2.

Product description	Part number
RCP TC-2 thermally controlled port	A-3061-0310

If you have any questions or comments on this bulletin please visit www.renishaw.com/cmmsupport and use the "Contact" facility. This will ensure that your call is logged and processed efficiently.