MC Toolkit
Rugged & Intrinsically Safe models
Model MCT202 Specification
34-ST-03-80 October 2010

Features
Configures any Honeywell DE device: ST3000 pressure and STT3000 temperature transmitters.

- Configures any HART® device with a published HART Device Descriptions (DD), regardless of device manufacturer.
- Supports easy downloading of any new vendor’s DD files via a PC connection.
- Intuitive graphical user interface provides simple navigation and device configuration.
- Available in three versions handling almost any environmental condition: Figure 1
  - Ruggedized version- Environmentally hardened with no approvals.
  - Zone 2 approvals: Intrinsically-safe version available with FM Class I, Div 2 and ATEX Zone 2 approvals.
  - Zone 1 approvals: Intrinsically-safe version available with FM Class I, Div 1 and ATEX Zone 1 approvals.


Benefits
- Supports transmitter diagnostic and on-line monitoring as well as transmitter calibration.
- Standardizes both HART and DE field instrument configuration with one hand-held device. Configuration of common, universal and specific device commands is supported.
- User interface provides detailed explanations and sub-menus during the configuration process for ease of operation for even the casual user.
Benefits (continued)
- Supports communication with HART devices when the operator is performing the following functions:
  - Initial device configuration
  - Starting a method
  - Changing a configuration parameter
  - Determining the actual “state” or process variable of a particular device
  - Activating a device’s internal diagnostic functions.
- Avoid obsolescence issues when vendors publish new DD files
  - Download new device descriptions from the HART website.
  - Acquire the latest DD releases from the manufacturer’s website including device descriptions not available from HART.
  - Honeywell FDC2.0 Application comes with built in DD manager which allows easy addition and deletion of DDs. FDC2.0 also supports IEC 61804-3 EDDL Standards.
  - Honeywell FDC2.0 Application has the facility to create custom views for easier and quicker access to device information.
  - Improved DD selection mechanism enables the following configuration options when the proper DD is missing
    - Use Generic DD ;Use previous version of DD or Always prompt the user
- Incorporates data reasonability checks. Under given conditions, the MC Toolkit configurator will not accept configurations beyond device ranges reducing the likelihood of costly mistakes.
- FDC2.0 application in the MCT 101/202 toolkit release 4.0 allows the user to capture one snapshot of the connected device’s configuration history. This history can be imported in to the FDM database. Available with FDM Release 301.1.1 and later.

Benefits:
- Comprehensive Device database of all the online and offline devices with FDM.
- Ability to Schedule Device calibration.
- FDC2.0 Application allows the user to import the device configuration parameters from FDM (Field Device Manager)

Description
The Honeywell MC Toolkit Configurator is a Pocket PC-based engineering and maintenance tool used to configure, monitor, diagnose and manage smart field instruments/devices. Designed specifically for ease-of-use and increased productivity, this multipurpose tool supports both HART and Honeywell’s Digitally Enhanced (DE) communication protocols. The MC Toolkit allows easy access to instrument configuration database parameters without the need for prior training, user manuals or previous experience. Each MC Toolkit comes loaded with all registered HART Device Description (DD) files and may be supplemented with non-published DD files at any time – so any HART new device can be configured as long as a DD can be downloaded. New DD files are easily downloaded and installed using ActiveSync software and the USB cable provided.

The MC Toolkit Configurator is loaded with two software applications:
1. The MC Toolkit software configures Honeywell DE devices
2. The FDC2.0 software configures non-Honeywell HART devices

The combination of these two applications enables true “Universal” configuration of HART devices and Honeywell DE devices.

The MCT202 is rated intrinsically safe for Zones 1 & 2 for both FM C and ATEX.
## Specification

<table>
<thead>
<tr>
<th>MCT-202</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pocket PC</strong></td>
</tr>
<tr>
<td><strong>Processor</strong></td>
</tr>
<tr>
<td><strong>Memory</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
</tr>
<tr>
<td><strong>Display</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
</tr>
</tbody>
</table>

All AC power options accept voltage inputs (Vac) of 90 - 264. Select the version required based on the input connection types available. Select using the pictures below.

| US Type | EU Type | AU Type | UK Type |

| **Dimensions** | (6 x 2.875 x 1.5 in) | (15.24 x 7.3025 x 3.81 cm) |
| **Weight**     | 200 g (.4409 lbs) |
| **Operating Temperature** | -10 to +50°C (+14 to +122°F) |
| **Storage Temperature** | -20 to +60°C (-4 to +140°F) |
| **Operating Humidity** | 10 to 90% RH |
| **Memory Requirements** | Approximately 51MB (includes all HART registered device descriptions). MC Toolkit software, including FDC2.0 and HART DD files, are loaded on flash memory card. The flash memory card in the MCT202 is not removable. |
| **HART Device Description** | Each MC Toolkit is loaded with a complete set of HART DD files available at the time of manufacture. If the device vendor has qualified their DD with the HART Foundation, the device description is assured of being compliant with the HON FDC2.0 Application. Additional DDs can be downloaded as new releases or new products become available through the ActiveSync connection. |
| **Approvals** | European EMC Standards: |
|               | EEC Directive 89/336 (EMC) |
|               | CE Mark |
|               | FM C-US: |
|               | Intrinsically Safe – Class I, Div 1 Group A,B,C,D |
|               | Non-incendive – Class I, Div 2 Group A,B,C,D |
|               | ATEX: |
|               | Intrinsically Safe – Ex II 2G EEx ia IIC T4 |
|               | Type n – Ex II 3G EEx nL IIC T4 |
|               | Dust ignition proof – Ex II 2D T99oC IP65; Ex II 3D T55oC IP65 |
MCT202 Parts

- i.roc 6XX (HP iPAQ Pocket PC)
- Integrated HART/DE modem
- 6' transmitter connector cable with one set of alligator clips and one set of EZ Clip connectors
- CD ROM (MC Toolkit + FDC2.0 software)
- MC Toolkit user manual
- i.roc user manual
- i.roc charger LG x 10
- 2 stylus pens
- 1 battery installed
- 1 GB SD card installed

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>MCT202</th>
</tr>
</thead>
<tbody>
<tr>
<td>50036088</td>
<td>MC Toolkit Upgrade Kit: San Disk card loaded with MC Toolkit and FDC2.0 software plus HART DD files</td>
<td></td>
</tr>
<tr>
<td>50018046-001</td>
<td>Transmitter connector cable with one set of Alligator clips and one set of EZ clips</td>
<td>Available</td>
</tr>
<tr>
<td>50017823-001</td>
<td>Stylus pens, set of two (2)</td>
<td>Available</td>
</tr>
<tr>
<td>50017828-001</td>
<td>Spare charger LG x 10 (US adaptor)</td>
<td>Available</td>
</tr>
<tr>
<td>50017828-002</td>
<td>Spare charger LG x 10 (EU adaptor)</td>
<td>Available</td>
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<tr>
<td>50017828-003</td>
<td>Spare charger LG x 10 (UK adaptor)</td>
<td>Available</td>
</tr>
<tr>
<td>50017828-004</td>
<td>Spare charger LG x 10 (AU adaptor)</td>
<td>Available</td>
</tr>
<tr>
<td>50017822-001</td>
<td>Leather carrying case</td>
<td>Available</td>
</tr>
<tr>
<td>50017824-001</td>
<td>Hand Strap</td>
<td>Available</td>
</tr>
<tr>
<td>50018626-001</td>
<td>Docking station with charger adapter and USB cable for computer interface</td>
<td>Available</td>
</tr>
<tr>
<td>50017827-001</td>
<td>Docking station with USB cable</td>
<td>Available</td>
</tr>
<tr>
<td>50017825-001</td>
<td>Charger adapter for docking station</td>
<td>Available</td>
</tr>
<tr>
<td>50018045-001</td>
<td>USB interface kit with charger cable</td>
<td>Available</td>
</tr>
<tr>
<td>51453286-501</td>
<td>Honeywell CD-ROM software (FDC2.0 and MC Toolkit software)</td>
<td>Available</td>
</tr>
</tbody>
</table>
Ordering information
For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below. Or, visit Honeywell on the World Wide Web at: http://www.honeywell.com.

ASIA PACIFIC
Control Products
Asia Pacific Headquarters
Phone: +(66-3) 6355-2828
Fax: +(65) 6445-3033

Asia Pacific Global
Technical Support
Field Instruments
Phone: +65 6980 5156
Fax: +65 6445-3033
Process Instruments
Phone: (603) 76950 4777
Fax: (803) 7958 8922

New Zealand
Honeywell Limited
Phone: +(64-9) 623-5025
Fax: +(64-9) 623-5060
Toll Free (0800) 202-088

Philippines
Honeywell Systems
(Philippines) Inc.
Phone: +(63-2) 333-2830-31/636 1661-62
Fax: +(63-2) 638-4013

Singapore
Honeywell Pte Ltd.
Phone: +(65) 6580 3278
Fax: +(65) 6445-3033

South Korea
Honeywell Korea Co Ltd
Phone: +(82-2) 799 6315
Fax: +(82-2) 792 9015

Thailand
Honeywell Systems
(Taiwan) Ltd.
Phone: +(622) 693-3099
Fax: +(622) 693-3089

Taiwan R.O.C.
Honeywell Taiwan Ltd.
Phone: +(886-2) 2425-1000
Fax: +(886-2) 2425-3241

SE Asia Countries
see Honeywell Pte Ltd
(Singapore) for:
Pakistan
Cambodia
Guam
Laos
Myanmar
Vietnam
East Timor

Western Asia

Bulgaria
Honeywell ECDQ
Phone: +(359) 2 40 20 900
Fax: +(359) 2 40 20 990

Czech Republic
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Phone: +420 242 442 232
Fax: +420 242 442 131

Denmark
Honeywell A/S
Phone: +(45) 39 55 55 55
Fax: +(45) 39 55 55 58

Finland
Honeywell OY
Phone: +(358) (0) 20752 2753
Fax: +(358) (0) 20752 2751

France
Honeywell SA
Phone: +(33) (0) 60198075
Fax: +(33) (0) 60198201

Germany
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Fax: +(49 (69)860497336

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Fax: +36-1-451 4343

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Fax: +39 0292146377

The Netherlands
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Fax: +(31) (0) 20 5565210

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Fax: +48-22-6060901

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Fax: +(351) 21 424 50 99

Romania
Honeywell Bucharest
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Fax: +(40) (0) 21 2316439

Russian Federation (RF),
ZAO "Honeywell"
Phone: +7 (965) 796 98 00
Fax: +7 (495) 797 99 64

Slovak Republic
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Fax: +(421-2) 58247 415

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Sweden
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Fax: +(46) 8 775 56 00

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Fax: +(41) 1 855 24 45

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Fax: +90 216 575 66 35

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Fax: +(380-44-202-04 75

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Honeywell Control Systems
Ltd.
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Fax: +(44) (0)1344 655554

MIDDLE EAST

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Fax: +968 24 787351

Saudi Arabia
Honeywell Turki Arribe Ltd
Jubail Office
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Fax: +966-3-341-0126

Honeywell - ATCO
Dammam Office
Phone: +966-3-341-0216
Fax: +966-3-341-0140

Kuwait
Honeywell Kuwait KSC
Phone: +965 242 1327 to 30
Fax: +965 242 8315

Venezuela
Honeywell CA
Phone: +(58-2) 238-0211
Fax: +(58-2) 238-3391

AFRICA

Mediterranean & African
Distributors
Honeywell SpA
Phone: +(39) (02) 250 10 604
Fax: +(39) (02) 250 10 659

South Africa (Republic of)
and sub saharan
Honeywell Southern Africa
Honeywell S.A. Pty. Ltd.
Phone: +(27) 11 698-8000
Fax: +(27) 118051504

NORTH AMERICA

Canada
Honeywell LTD
Phone: 1-800-737-3360
Fax: 1-800-565-4130

USA
Honeywell Process Solutions,
Phone: 1-800-423-9883
Or 1-800-343-0228
Email: ask-ask@honeywell.com

SOUTH AMERICA

Argentina
Honeywell S.A.I.C.
Phone: +(54-11) 4383-3637
Fax: +(54-11) 4325-0470

Brazil
Honeywell do Brasil & Cia
Phone: +(55-11) 7366-1900
Fax: +(55-11) 7266-1905

Chile
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Phone: +(56-2) 233-0688
Fax: +(56-2) 231-6679

Mexico
Honeywell S.A. de C.V.
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Fax: +(52) 55 5570-2985

Puerto Rico
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Fax: +(809) 792-0953

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Fax: +(868) 624-3969

Specifications are subject to change without notice.
Model Selection Guides are subject to change and are inserted into the specifications as guidance only. Prior to specifying or ordering a model check for the latest revision Model Selection Guides which are published at: http://hpsweb.honeywell.com/Cultures/en-US/Products/Instrumentation/ProductModelSelectionGuides/default.htm

Honeywell

MC Toolkit (Rugged and I.S.)
Multiple Communication Configurator

Model Selection Guide
34-ST-16-61 Issue 8

Instructions
? Select the key number. Make one selection from each Table.
? A dot (•) denotes unrestricted availability.

<table>
<thead>
<tr>
<th>Key Number</th>
<th>I</th>
<th>II</th>
<th>III</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

TABLE I - Safety Approvals

<table>
<thead>
<tr>
<th>Location Type</th>
<th>Approval Body</th>
<th>Approval Type</th>
<th>Location or Classification</th>
<th>Selection</th>
<th>Avail.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone 1 Div 1</td>
<td>FM C-US</td>
<td>Intrinsically Safe</td>
<td>Class I, Div. 1, Groups A,B,C,D AEx ia IIC Zone 1</td>
<td>XF</td>
<td>•</td>
</tr>
<tr>
<td></td>
<td>ATEX</td>
<td>Dust Ignition Proof</td>
<td>Ex II 2G EEx ia IIC T4 Ex II 2D T99°C IP65; Ex II 3D T55°C IP65</td>
<td>XA</td>
<td>•</td>
</tr>
</tbody>
</table>

TABLE II - AC Power Options

All AC power options accept voltage inputs (Vac) of 90 - 264.

Universal Type

Universal Connector Type 00 •

TABLE III - Options

| No Options       | 00 | • |
| Hard copy of User’s Manual | UM | • |

Ordering Example: MCT202-YF-00-UM
## Accessories & Spare Parts

<table>
<thead>
<tr>
<th>Accessories/Spare Parts</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-ROM (FDC 2.0 software + MC Toolkit software)</td>
<td>51453286-501</td>
</tr>
<tr>
<td>Leather carrying case</td>
<td>50017822-001</td>
</tr>
<tr>
<td>Spare charger LG x 10 (Universal adaptor)</td>
<td>50025670-001</td>
</tr>
<tr>
<td>Stylus pens, set of two (2)</td>
<td>50017823-001</td>
</tr>
<tr>
<td>Docking station, adapter and USB cable for computer interface</td>
<td>50017826-001</td>
</tr>
<tr>
<td>Docking station with USB cable</td>
<td>50017827-001</td>
</tr>
<tr>
<td>Adapter for docking station</td>
<td>50017825-001</td>
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<tr>
<td>USB interface kit with charger cable</td>
<td>50018045-001</td>
</tr>
<tr>
<td>Transmitter connector cable</td>
<td>50018046-001</td>
</tr>
<tr>
<td>Hand strap</td>
<td>50017824-001</td>
</tr>
<tr>
<td>MC Toolkit replacement kit (Applicable for MCT101 only)</td>
<td>50020492-501</td>
</tr>
</tbody>
</table>
For More Information
Learn more about how Honeywell’s MC Toolkit
Configuration Tools, visit our website
http://www.honeywell.com/ps/hfs or contact your
Honeywell account manager.

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