

SCT 3000

Smartline Configuration Toolkit
Model SCT 101

34-CT-03-02
01/06

Specification and Model Selection Guide

Description

The **Smartline Configuration Toolkit** is a PC-based engineering and maintenance tool designed specifically for use with Honeywell's Smartline® family of field instrumentation products. The SCT 3000 is a Windows™-based software program that allows easy access to all Smartline configuration database parameters. Familiar Windows tools are employed in the SCT 3000 for increased user productivity, and include an on-line user manual and context sensitive help for first-time users. The SCT 3000 runs on PCs with Windows 95, Windows 98, or Windows NT 4.0 operating systems.



Figure 1 —The SCT 3000 Engineering and Maintenance Software application operating on a laptop PC communicates with a variety of Honeywell Smart field devices and provides easy access to all Smartline configuration database parameters.

Function

The SCT 3000 communicates with the following Honeywell Smartline products

- ST 3000 Pressure Transmitters *
- STT 3000 Temperature Transmitters, which include the STT150, STT250 and STT350 Series
- SMV 3000 Multivariable Transmitters
- MagneW and MagneW *PLUS* Electromagnetic Flowmeters

Windows-based displays

Device database parameters are arranged and presented in logically grouped “tab card” displays. Even the casual user can easily navigate through database configuration without the need for prior training, user manuals or previous experience.

On-line and Off-line Modes

You can setup field device databases in either on-line or off-line modes. The off-line mode allows you to configure and store device databases before receipt of the field devices.

In the on-line mode, you can download the stored databases to the devices and perform on-line functions such as:

- Configuration and device diagnosis
- Calibration
- Display of device parameters
- Device check out
- Selection of the Communications Mode.

Built-in Database Templates

Default database templates are provided for each type of field device. Templates simplify and greatly reduce configuration time, effort and error by providing a logical starting point.

Features

Database Verification

Database parameters are checked for “reasonable” values automatically to help avoid mistakes. The SCT 3000 compares and detects differences between the device database and the SCT database providing assurance of proper installation.

Flow Wizard

The SCT 3000 includes a wizard that provides considerable time savings and ease of use for users wishing to configure a transmitter. By providing responses to configuration questions and choices in a step-by-step progression, you can configure the flow process variable in a Smart Multivariable Transmitter (SMV 3000). Upon completion, a configuration solution is generated by the wizard that can be downloaded to the field device.

Monitoring

Graphical controls are employed so you can monitor the operating status of Smartline field devices. A display window shows you values of input PVs, output PVs and SVs of the connected device in real time.

Hardware and Software Included

The SCT 3000 is a bundled package that includes the hardware and software to connect and communicate with Smartline field devices. Standard hardware includes a Smartline Option Module that consists of a PCMCIA TypeII interface card, line interface module and connecting cables. An optional RS-232 interface (option ST) is required when using the SCT 3000 application to communicate with the STT150 temperature transmitter.

* Will not communicate with older ST 3000 transmitters that are analog only and contain software version 2.2 or earlier, or version 6.1 or earlier.

System Requirements

The SCT 3000 software application runs on a variety of commercially-available portable or desktop computer platforms that may also be shared with other applications. This table lists the system capabilities needed to install and operate the SCT 3000 application.

<u>PC Specification</u>	<u>Computer: Laptop or Desktop PC</u>
CPU	Pentium 90 MHz or better
Display	SVGA (Monochrome or Color)
Operating System	Windows 95, Windows 98 or Windows NT 4.0 (Note: Windows 95b or greater is recommended.)
Pointing Device	Mouse or trackball-compatible device
Power Source	<i>Laptop PC</i> Battery powered (see Note 1) <i>Desktop PC</i> AC powered (see Note 1)
RAM	16 MB (32MB recommended). See Note 2.
Application Size	12 MB (application) + 5 kB per database file
Floppy Disk Drive	<i>Laptop PC</i> See Note 3 <i>Desktop PC</i> (1) 3.5-inch, 1.44MB drive
CD ROM Drive	<i>Laptop PC</i> Optional <i>Desktop PC</i> 4x or higher
Ports	Parallel: Printer (see Note 4) Serial: For STT150 support (See Note 3)
PCMCIA Slot	(1) Type II PCMCIA slot (see Note 5)

1. Computer power source (and laptop PC's battery charger and/or AC adapter) must be suitable for worldwide use: 50-60 Hz and 100-220 VAC operation; also, battery should provide enough capacity to power the PC Card without derating life by more than 10%.
2. Minimum RAM capacity is 4 MB, but ROM-based portable PCs may be able to run with only 2 MB.
3. These functions require laptop PCs to have a floppy disk drive, serial port or other mechanism for file transfers:
 - installation of SCT 3000 software and updates
 - configuration database import and export
4. SCT 3000 software supports any Windows 95 (or greater)-compatible printer.
5. The interface hardware requires a PCMCIA Type II slot; it may be necessary for the desktop computer to have a PCMCIA adapter installed to accommodate the interface hardware. Compatible PCMCIA adapters include Greystone Peripherals Card Dock GS315.

SCT 3000 Hardware Interface Parameters

<u>Parameter</u>	<u>Smartline Option Module</u> (Standard Hardware Interface)	<u>RS-232 Interface</u> (Option ST)
Communication Protocol	Compatible with Honeywell Smart Field Network (SFN)	Computer interface: RS232 Field Device interface: Compatible with 5Vdc level or 3Vdc level
Baud Rate	218 bps, typical	19200 bps, maximum 9600 bps, typical
Temperature Range		
Operating	0°C to +40°C (32°F to +104°F), ambient	0°C to +50°C (32°F to +122°F), ambient
Storage	-4°C to +55°C (25°F to +131°F), ambient	-40°C to +85°C (-40°F to +185°F), ambient
Operating Humidity Range (RH)	10-90%, noncondensing	10-90%, noncondensing
Weight (Hardware Interface + cables)	0.5 lbs., maximum	0.5 lbs., maximum
Approval Bodies		
NORTH AMERICA	EMC Standards: FCC Class A	European EMC Standards: CE Mark
EUROPE	European EMC Standards: EEC Directive 89/336 (EMC) CE Mark	

Ordering Information

Contact your nearest Honeywell sales office, or

In the U.S.:

Honeywell
Industrial Automation & Control
16404 North Black Canyon Hwy.
Phoenix, AZ 85053
1-800-288-7491

In Europe and Africa:

Honeywell S. A.
Avenue du Bourget 1
1140 Brussels, Belgium
[32-2] 728-2111

In Asia:

Honeywell Asia Pacific Inc.
Honeywell Building,
17 Changi Business Park Central 1
Singapore 486073
Republic of Singapore

In Canada:

The Honeywell Centre
155 Gordon Baker Rd.
North York, Ontario M2H 3N7
1-800-461-0013

In Eastern Europe:

Honeywell Praha,
s.r.o. Budejovicka 1
140 21 Prague 4,
Czech Republic

In the Pacific:

Honeywell Pty Ltd.
5 Thomas Holt Drive
North Ryde NSW Australia 2113
(61 2) 9353 7000

In Latin America:

Honeywell Inc.
480 Sawgrass Corporate Parkway,
Suite 200
Sunrise, FL 33325
(954) 845-2600

In the Middle East:

Honeywell Middle East Ltd.
Khalifa Street,
Sheikh Faisal Building
Abu Dhabi, U. A. E.

In Japan:

Honeywell K.K.
14-6 Shibaura 1-chrome
Minato-ku, Tokyo, Japan 105-0023

Or, visit Honeywell on the World Wide Web at: <http://www.honeywell.com>

Model Selection Guide

Instructions

- Select the desired key number. The arrow to the right marks the selection available.
 - Make one selection from each table, I, II and III, using the column below the proper arrow.
If no options are desired, specify 00.
A dot (•) denotes unrestricted availability. A letter denotes restricted availability.
- Key Number - I - II (Optional) + XXXX
_ _ _ _ _ - _ _ _ _ - _ _ , _ _ _ _ + XXXX

KEY NUMBER	Selection	Availability
Description		
Smartline Configuration Toolkit	SCT101	↓

TABLE I

None		0 _ _	•
Cable Length	6 Ft. - Standard	_ 0 _	•
	20 Ft.	_ 1 _	• c
	None	_ 2 _	•
Installation Guide & Software	Inst. Guide & 3.5" Disks (English only)	_ _ 1	•
	Inst. Guide & CD ROM (supports: English, German, French, Italian and Spanish)	_ _ 2	•
	None	_ _ 3	•

TABLE II - Options

PC Card and LIM Hardware for DE Transmitters	11	•	} b
RS-232 Hardware for STT150 Configuration	22	•	
Both Hardware Versions above	33	•	

TABLE III

Factory Identification	XXXX	•
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Example: SCT101-002-33+ XXXX List Price = \$1,412

Note: Software upgrades can be ordered through Honeywell Worldwide Software Control.
Please e-mail Sue Shea.

Accessories	Part Number
RS232 Interface Hardware only	46188693-501

RESTRICTIONS

Restriction Letters	Table	Available only with Selection
b	I	Select Only One Option from this Group
c	II	Options 11 or 33

Specifications are subject to change without notice.

