USB TO SERIAL
CONVERTER - ISOLATED

FEATURES

- Compatible with USB 2.0
- 12Mbps USB data rate
- 921.6 kbps maximum baudrate for super fast data transmission
- USB A-type female to USB miniature B-type female cable provided for easy interfacing with PC and transmitter
- LEDs for indicating USB and TxD/RxD activity
- 2 kV isolation between PC and the instrument being programmed
- Din rail and surface mount
- Drivers provided for Windows 95/98/ME/2000/XP/2007/2008/2010
- No external power supply required

ABOUT DCC501

The DCC501 USB to Serial converter is used to configure a variety of Radix Temperature Transmitters and other instruments. It connects to a USB port in the PC.

The PC port is isolated electrically from the instrument.

No external power supply is required.

RADIX MODELS SUPPORTED BY DCC501

Product	Model
2-wire temperature transmitter	SCC602, SCC632, SCC631, SCC641, SCC642, SCC622, TX3DR
AC / DC input signal isolator	SCC314
Programmable signal isolator	SCC311, SCC313
RH+Temperature transmitter	RHT811, RHT812, RHT813, RHT862, RHT831, SC805
Differential pressure transmitter	DPT501, DPT502, DPT511, DPT512, DPT513, DPT514, DPT551, DPT552, SC504
PID controller	NEX20x Series

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SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

USB INTERFACE

Compliance	USB 1.0/1.1 compliant, USB 2.0 compatible

SERIAL INTERFACE

Connector	USB type A for RS232
Optical isolation	2 KV
RS-232 connections	TxD, RxD, GND

POWER SUPPLY

Supply voltage	No external power supply required

SYSTEM REQUIREMENTS

Operating systems	Windows 95/98/ME/2000/XP/2007/2008/2010
CPU	350 MHz
Memory	Windows 95/98/ME : 65MB Windows 2000/XP : 128 MB
Resolution	800 x 600 pixel
Others	CD-ROM drive

ENCLOSURE

Housing	ABS + PC
Mounting	a) Snap on for 35 mm DINrail to DIN46277 b) Surface mount
Dimensions (in mm) (See Fig1)	30.1(H) x 48.3(W) x 83.5(D)

ENVIRONMENTAL CONDITIONS

Operating temperature	0 to 55°C (32 to 131°F)
Storage temperature	-20 to 70°C (-4 to 158°F)
Relative humidity	5 to 95% (non-condensing)

DCC501

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DIMENSIONS mm

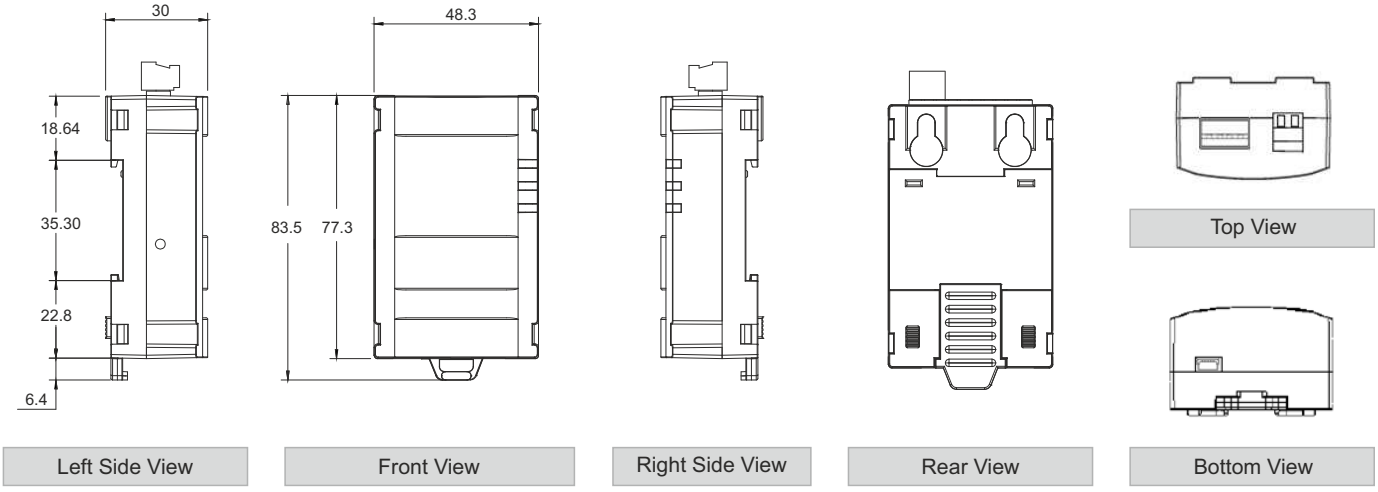
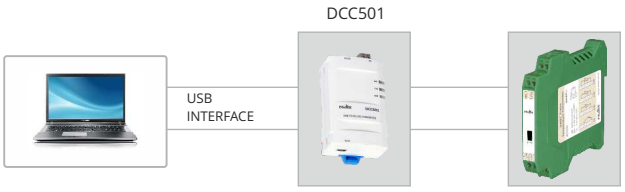


Fig 1

ORDERING INFORMATION

Order code	2555		
Operating voltage of slave device connected to DCC501		0	> =3V
		1	< 3V (can be used for SC805)

PROGRAMMING OF INSTRUMENT



INSTALLATION

To configure the USB port on the PC, install the software from the CD provided along with DCC501. Also download the Utility Software of the device to be connected to PC through DCC501.

The Tx/Rx LEDs will glow alternately if communication is working.

CONNECTIONS

radix®
www.radix.co.in

DCC501

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APPLICATION NOTE

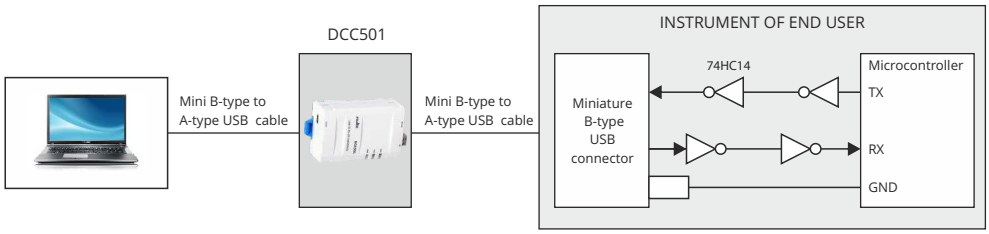
OEMs manufacturing instruments such as transmitters, controllers, etc. can use the DCC501 USB to serial converter for programming of their instruments. Radix can support the OEM for this design activity. Brief details are given below.

1. A B-type USB connector must be used in the product.

2. Connections to the connector are shownin the table.

PIN	SIGNAL
1	GROUND
2	GROUND
3	RX
4	TX
5	NC

3. The general scheme is given below.



CAT#514R2/A

ENQUIRIES
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