



### Model Number

**ICZ-R4-R2**

RS 232C/RS 485 converter

### Features

- Direct connection to a PC (RS 232)
- Point to point connection only
- DCE/DTE switchable
- Automatic RS-485 Tx/Rx switch over
- Termination resistor optional
- Converts RS 232 to RS 422 4-wire, RS 485 4-wire, or RS 485 2-wire

### Technical data

#### Interface

Interface type	standard PC RS 232 interface with 9-pin Sub-D female connector RS 485 interface at terminals
Transfer rate	up to 115200 Bit/s
Cable length	RS-485 max. cable length 1200 m

#### Ambient conditions

Ambient temperature	0 ... 50 °C (32 ... 122 °F)
Storage temperature	0 ... 50 °C (32 ... 122 °F)

#### Mechanical specifications

Connection	RS 232 , RS 485
Dimensions	84 x 50 x 37 mm (L, W, H)

## Notes

## DIP switch settings

	SW1	SW2	SW3	SW4	SW5
	TD control	RTS control	220 Ω trm	2-wire mode	4-wire mode
RS-422	Off	Off	Off	Off	On
RS-485 4-Wire Transmitter enabled by RTS	Off	On	Off	Off	On
RS-485 4-Wire Transmitter enabled by TD	On	Off	Off	Off	On
RS-485 2-Wire Transmitter enabled by RTS	Off	On	X	On	Off
RS-485 2-Wire Transmitter enabled by TD	On	Off	X	On	Off

On = Closed Off = Open

Note: X = Enable (On) / Disable (Off) 220 Ω Terminator.

The 220 terminator should only be selected for use with

RS-485 two-wire options.

## RS-232 pin-number assignments

Pin		Name	Pin
DCE	DTE		
2	3	Transmit Data	*
3	2	Receive Data	*
7	7	Request to Send	**
8	8	Clear to Send	**
6	6	Data Set Ready	***
5	5	Signal Ground	gnd
1	1	Data Carrier Detect	***
4	4	Data Terminal Ready	***

\* These signals can be reversed using the selector switch.

\*\* , \*\*\* connected together.

When using the converter with IQT... type read heads set/connect the converter as follows:

## RS-485 2-wire connection

T + connect to pin 2 white wire  
T - connect to pin 4 black wire

## DCE/DTE switch

Set to DCE and wire all RS-232 pins straight through

## DIP switch settings

1 down, on  
2 up, off  
3 termination optional  
4 down, on  
5 up, off