



RDL TECHNOLOGIES

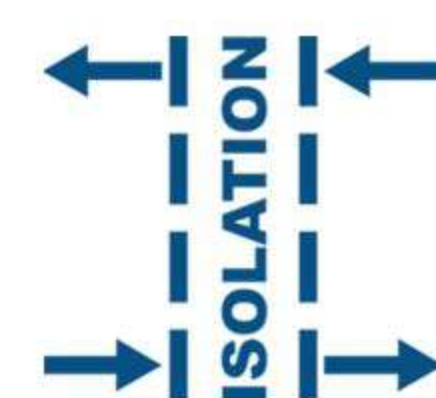
RDL898 / DATASHEET



Isolated Serial USB to RS232 Adapter



±8kV / ±15kV
ESD Protected



Isolation 3000 VRMS



USB Power Driven



Rugged Metal Enclosure





Industrial grade Isolated Serial USB to RS232 adapter build the communication link between DAQ / DAS, PLC's and any serial port enabled devices to USB enabled devices

FEATURES

- Both Ports Completely Isolated.
- ESD Protected.
- EMC / EMI compliance enabled Design.
- USB Power driven - no additional power supply required.
- Rugged and compact Adapter - specifically designed for industrial use.
- FT232 chip Inside - Support High speed data transfer*.
- High common-mode transient immunity: 100 kV/ μ s typical.
- High robustness to radiated and conducted noise.
- UL recognition: 3000 V rms for 1 minute per UL 1577
- RoHS-compliant, SOIC package.
- 120KBps minimum data rate.

*Transfer of data depends on serial device and data cable quality

ESD PROTECTION SERIAL SIDE

IEC 61000-4-5 (lightning) see IPPM below

- ESD immunity acc. IEC 61000-4-2.
- ± 8 kV contact discharge.
- ± 15 kV air discharge.
- ESD capability according to AEC-Q101.

ESD PROTECTION USB SIDE

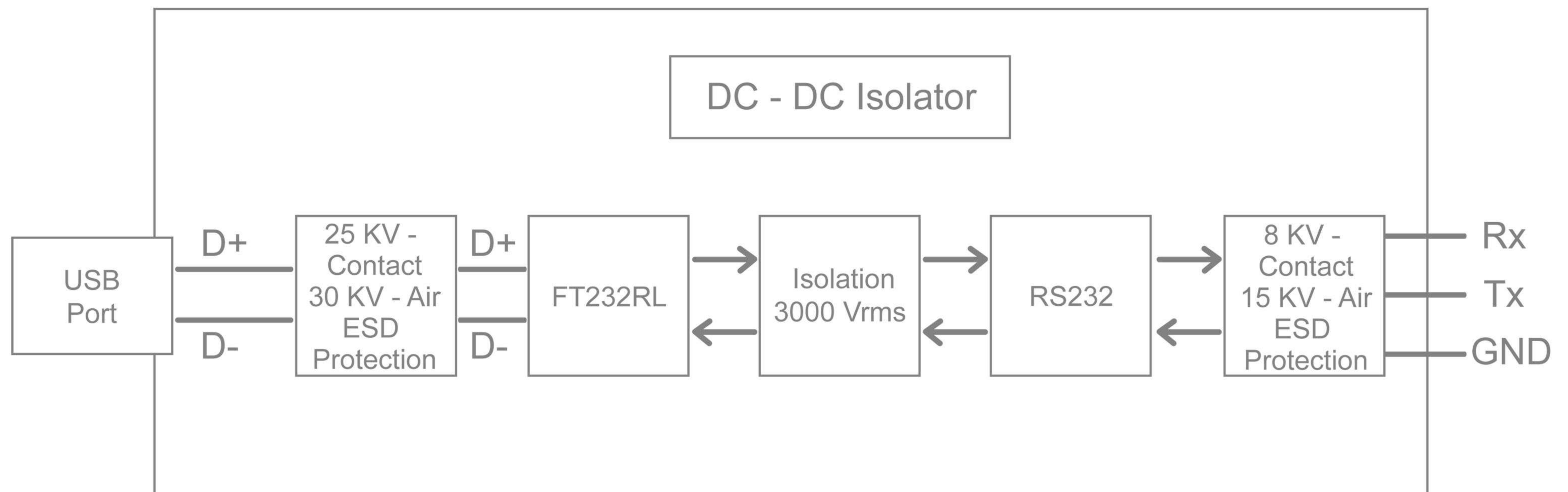
- IEC 61000-4-2 Level 4
- ± 25 kV (Contact discharge)
- ± 30 kV (Air-gap discharge)
- IEC 61000-4-5 Surge protection
- 5.5-A Peak pulse current (8/20 μ s Pulse)
- IO Capacitance 1.5 pF (Typ)
- DC Breakdown voltage 6.5 V (Min)
- Ultra-Low leakage current 10 nA (Max)



APPLICATIONS

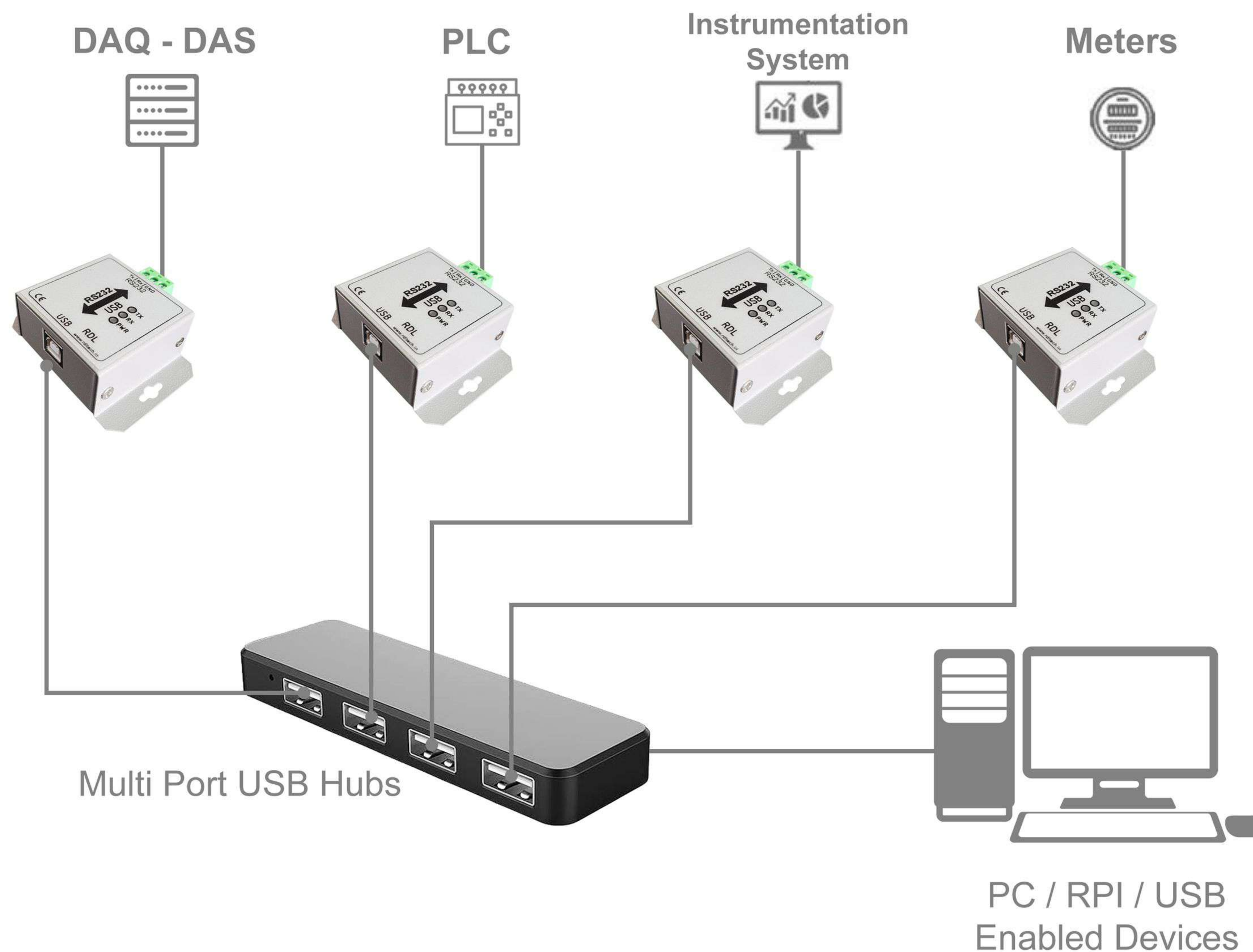
- Upgrading Legacy Peripherals to USB
- USB Instrumentation
- USB Industrial Control
- Legacy Machine & PLC's Serial Port Communication
- DAQ / DAS serial to USB communication
- USB Software and Hardware Encryption Dongles

APPLICATIONS DIAGRAM





USB TO RS232 ADAPTER WITH MULTI PORT USB HUBS

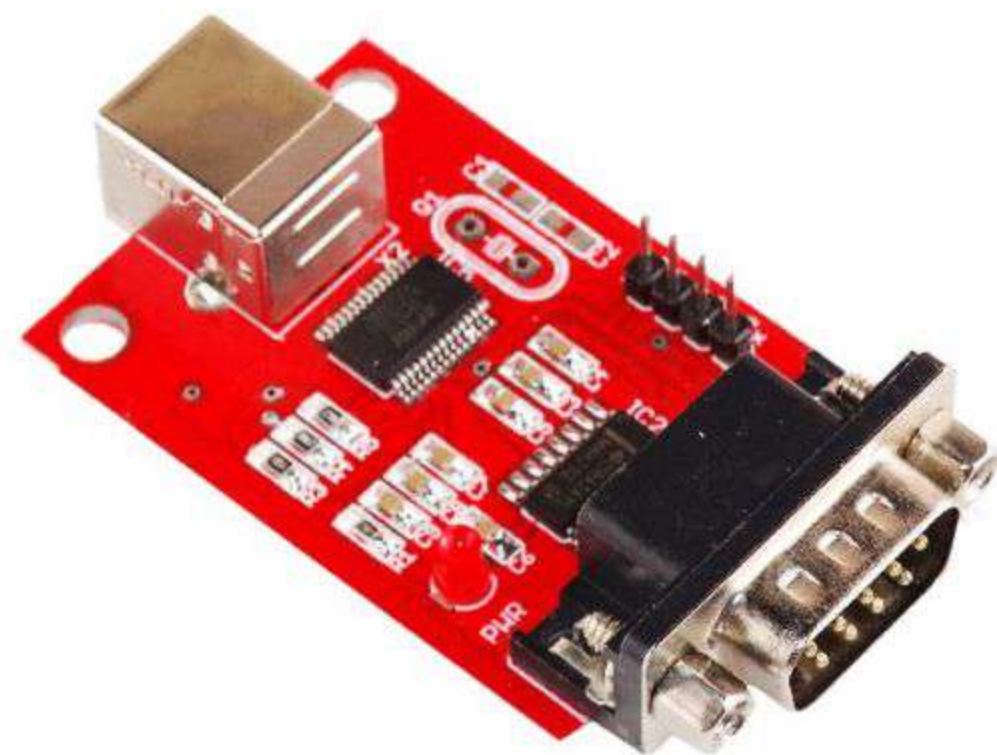




RELATED PRODUCTS

Board Level USB to Serial RS232 Adapter

Model No. : RDL898B



- Single board USB to asynchronous serial data transfer interface.
- UART interface support for 7 or 8 data bits, 1 or 2 stop bits and odd / even / mark / space / no parity.
- Power LED.
- Low USB bandwidth consumption.
- Supports automatic handshake mode

4 Port USB to Serial RS232 Adapter

Model No. : RDL898C



- Both ports Completely Isolated.
- ESD Protected.
- EMC / EMI compliance enabled Design.
- USB Power driven - no additional power supply required.
- Rugged and compact Adapter - specifically designed for industrial use.
- FT232 chip Inside - Support High speed data transfer*.
- 4 Channel RS232 Communication Port
- 1x USB Port

4 Port USB to Serial RS485 Adapter

Model No. : RDL899A



- Both ports Completely Isolated.
- ESD Protected.
- EMC / EMI compliance enabled Design.
- USB Power driven - no additional power supply required.
- Rugged and compact Adapter - specifically designed for industrial use.
- FT232 chip Inside - Support High speed data transfer*.
- 4 Channel RS485 Communication Port
- 1x USB Port

4-20 mA Transmitter

Model No. : RDL900



- ESD Protected.
- EMC / EMI compliance enabled Design.
- Loop Power driven - no additional power supply required.
- Rugged and compact Adapter specifically designed for industrial use.
- 2-WIRE, 4-20mA Current Loop Transmitter.
- Analog Input - Noise Filter and over voltage protection.
- Support Analog 0-5v / 0-10v and PWM Input.



Note:

1. Unless otherwise specified, all parameters in this datasheet were measured at 25°C and 75% humidity.
2. All index testing procedures in this datasheet are based on our company's corporate standards.
3. We offer product customization, OEM and ODM Services; please contact the sales team @ sales@rdltech.in.
4. We Ship Worldwide.
5. Specifications are subject to change without prior notice.
6. For additional information on Product and to buy online @ www.researchdesignlab.com

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