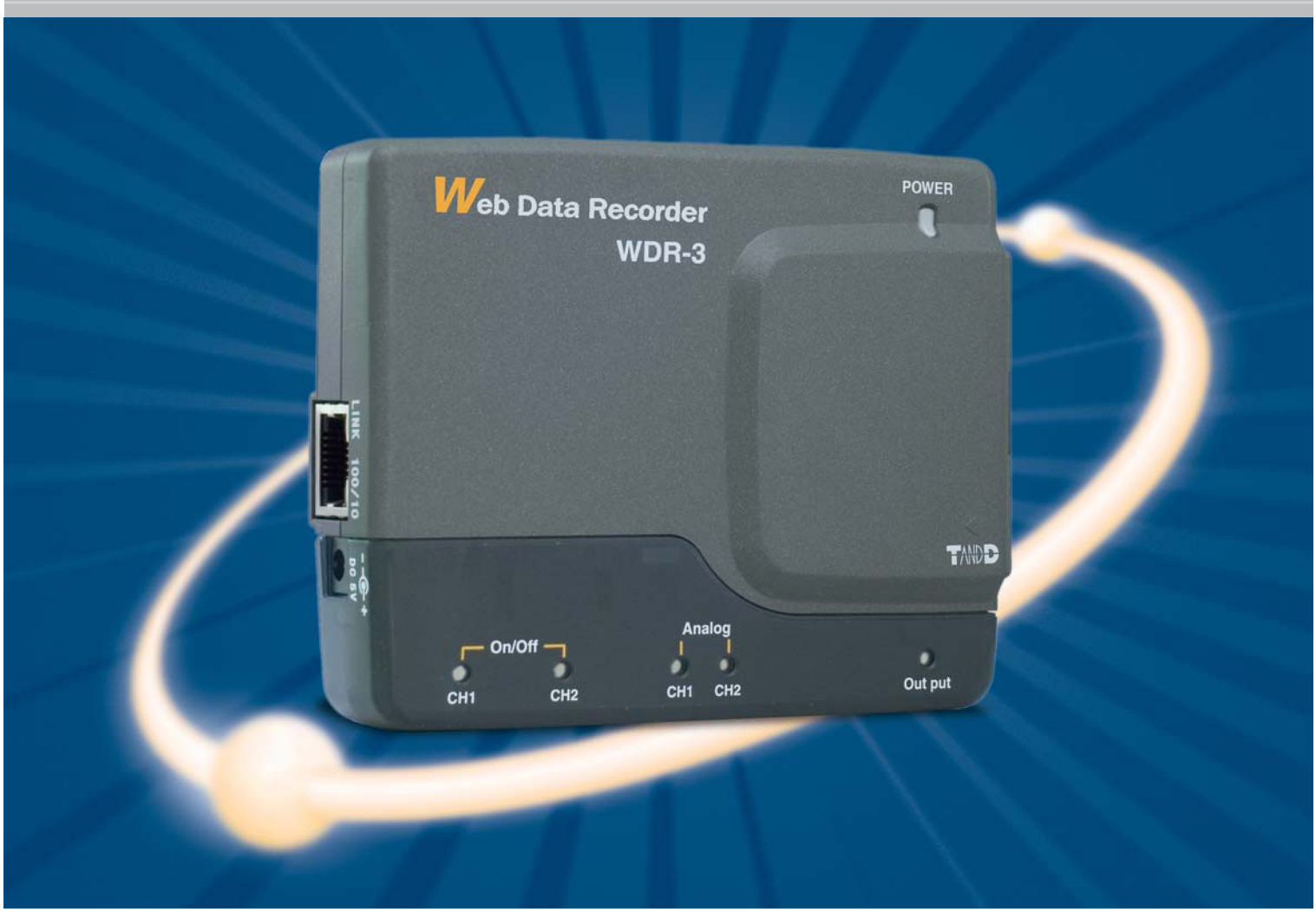
Web Data Recorder

T&D

WDR-3

Network-Dedicated Instrumentation Data Logger WDR-3

WDR-3 is a network compatible data logger that records output voltage and ON/OFF (point of contact) signals from various types of sensors and measuring devices and with its network connection allows the user to download the measurements and data.



CE

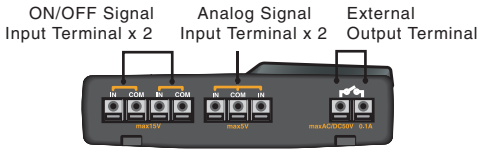
T&D CORPORATION

Web Data Recorder

WDR-3

Measuring and Managing Instrument Signals

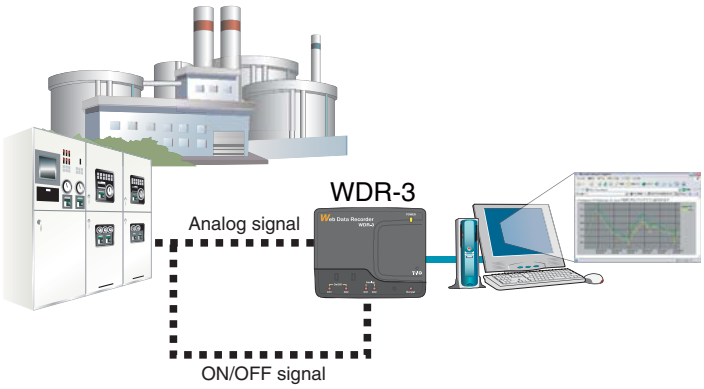
Measure and record analog signals (voltage 0~5V) and ON/OFF signals. Number of Channels: 2 channels for Analog Signal, 2 channels for ON/OFF Signal for total of 4 channels.
Two types of measurement method (instantaneous or average) for analog signals, as well as two types of recording method (Pulse Number or Polarity Change) for ON/OFF signals are available to be chosen from for each channel.



Via an Internet Browser it is possible to view Current Measurement Readings, Download Recorded Data, and carry out a Variety of Settings

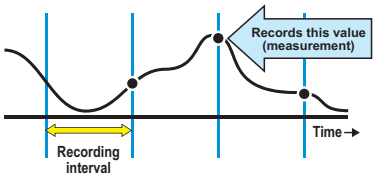
Because the WDR-3 is designed with a built-in WEB server, it can be accessed directly from a browser.
Besides checking on current measurements via the browser, it is possible to view all recorded data in list form.
Moreover, various communication and operational settings for the WDR-3 can be carried out via browser.*1

*1: Network Settings are made using the Network Settings Utility.

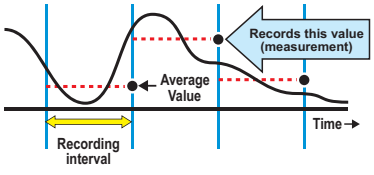


Voltage Measurement Range: 0 to 5V

WDR-3 can measure and record input voltage from 0 to 5V. You can choose to record the voltage measurement as the instantaneous value for each recording interval span or as the average value for each recording interval span.



Recording by Instantaneous Value
Records measurements at set recording interval.



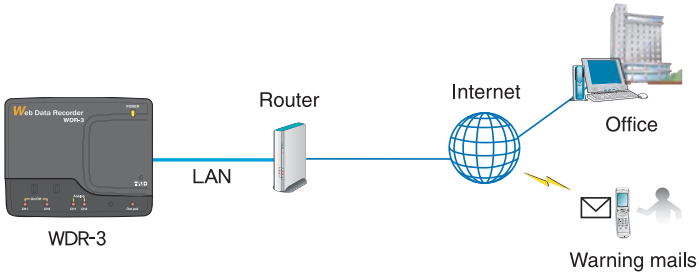
Recording by Average Value
Records the average value of the measurements taken every minute within the set recording interval.

Possible to Transmit Recorded Data as an E-mail Attachment to Specified Addresses at a Set Time

The WDR-3 incorporates a Data Sending function which allows for the automatic transmission at regular intervals of recorded data as E-mail attachment. This enables the receiving of recorded data at specific time intervals as set by the user.*2

*2:Because this is an SMTP client function, the User must prepare or be in an environment which has an SMTP/POP server in order to send e-mails.

Complete access to recorded data or current readings via LAN, the Internet or E-Mail.



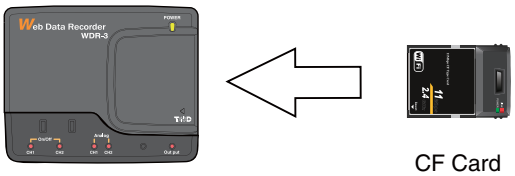
Internet Connection allows for Global Access to Data

The built-in Web Server gives the user the option of putting the data on the internet for public access.
Also by using the Internet connection the user can escape the boundaries of the Local Area Network and gain the freedom to manage and collect data from anywhere the Internet is available. This provides the facilitation of efficient management from remote sites, as well as offering outstanding cost performance.

Connect to a Wireless LAN via CF Card

The WDR-3 has been designed with an onboard CF card slot.
By inserting a wireless LAN card in this slot, it is possible to connect a Wireless LAN; releasing the user from the burden of cables and wiring.

*Please use only those CF type wireless cards that have been proven to be compatible and are for suggested use. For information and updates concerning which CF cards can be used, please see our web site.



Set Upper / Lower Limits and Send Warning E-mail

By making upper and lower limit settings for the WDR-3, when one of the set upper or lower limits has been exceeded, warning report e-mails can be sent.

*To make use of the warning report e-mail send function, it is necessary to create or be working in an environment which is connected to the Internet or to an in-company (in-house) SMTP/POP server.

Possible to Use Contact Output for Warning Occurrence

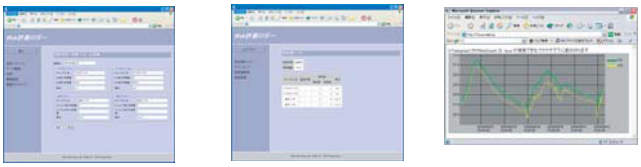
When a set upper or lower limit has been exceeded, it is possible not only to send a warning report via e-mail, but it is also possible to use the provided contact output on the main unit to issue a warning within a structured warning system.

WDR-3 for Windows

Software

Viewing Current Readings and Downloading Recorded Data via an Internet Browser

Besides checking on current measurements via a browser, it is possible to view all recorded data in list form and simple graph form.
Moreover, various settings for the WDR-3 data logging function can be carried out via a browser.



※ In order to use this product via the Internet or cell phone you must first make necessary arrangements with a provider for a line and obtain a global IP address. In addition, to use the mail function, it is necessary to have an SMTP server.

※ For the browser please use Microsoft Internet Explorer 6.0 or higher.

※ If polarity change has been selected in the recording method for ON /OFF signal, the recorded data cannot be viewed in graph form.

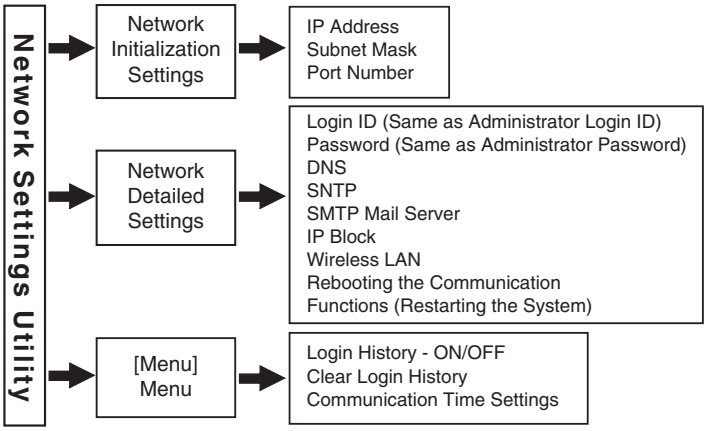
【Network Settings Utility】

The Network Settings Utility contains the following 2 functions: [Network Initialization Settings], in which you can make initial settings soon after purchase to connect a WDR-3 to a network and [Detailed Network Settings], where the reception of settings, the automatic reception of WDR-3 clock settings and more detailed network settings can be carried out.

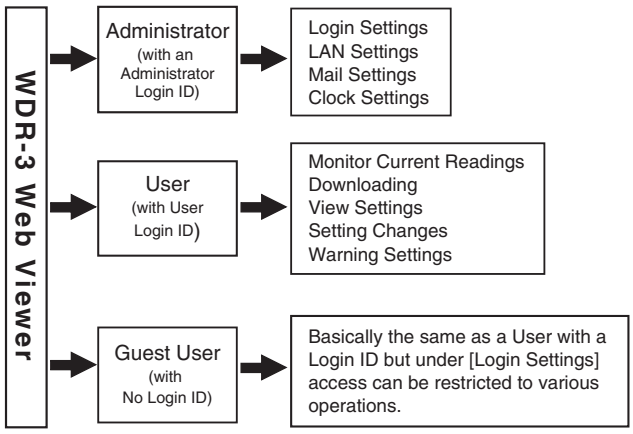
【WDR-3 Web Viewer】

WDR-3 Web Viewer gives you the option of putting your data on the Internet for global access. By using an Internet connection you can escape the boundaries of the Local Area Network and gain the freedom to check current readings or manage and collect data from anywhere the Internet is available.

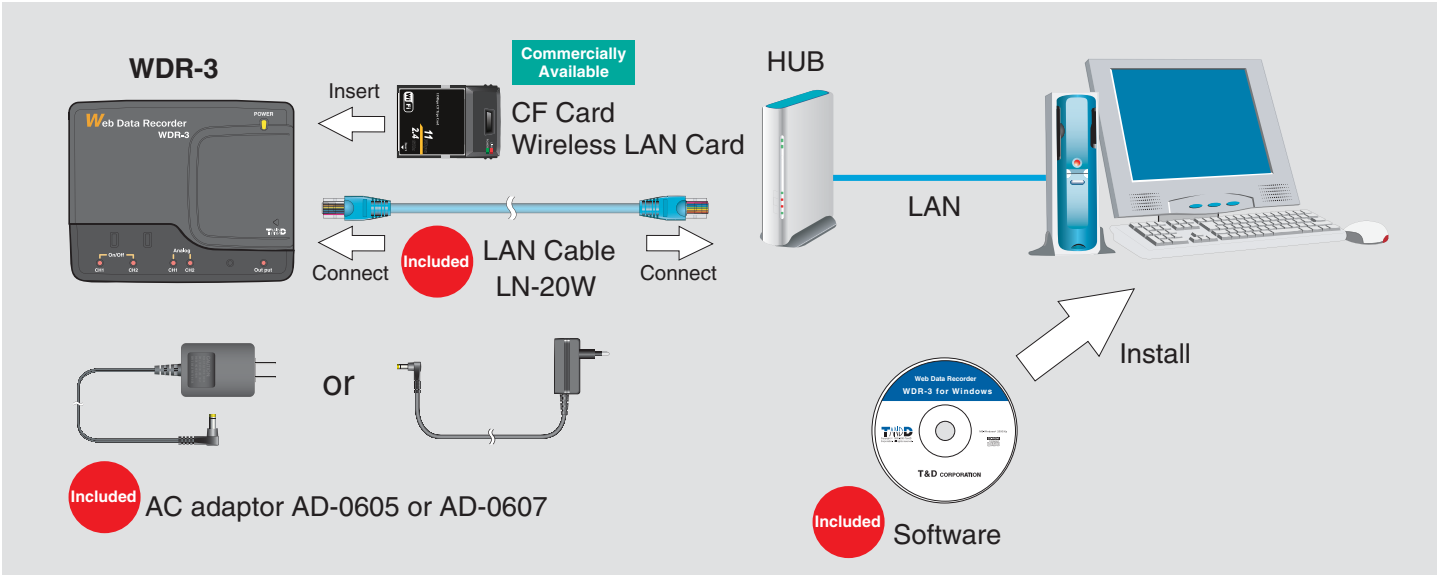
Network Settings Utility Operation Table



WDR-3 Web Viewer Operation Table



■System Setup



■Options

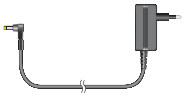
AC Adaptor

AD-0605

Input : 100~120V
Output : 5V 2A
Cable Length : 1.85m

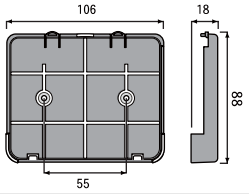
AD-0607

Input : 100~240V
Output : 5V 2A
Cable Length : 1.88m



Wall Attachment

TR-5WK1



Product Specifications

Unit	WDR-3
Measurement Items	Analog Voltage, ON/OFF Signal
Number of Channels	2 channels for Analog Signal, 2 channels for ON/OFF Signal for total of 4 channels
Analog Signal Input	
Number of Input Channels	2 Channels for Analog Signal (Common Ground)
Signal Input	Voltage Input
Input voltage Range	0 to 5V (Input Resistance : 1MΩ)
Measurement Resolution	4.88mV (10bit)
Measurement Cycle	1min (average of 6 samplings x 10 seconds)
Recording Method	Instantaneous Value Recording Method: Data Measurement for each Recording Interval
	Average Value Recording Method: Average of Data Measurements for Recording Interval
Recording Interval	Six intervals to select from : 10, 20, 30, 40, 50, 60 minutes
Recording Capacity	2,880 Readings x 2 channels
Recording Mode	Endless Mode: Overwrite oldest data when capacity is full
Monitoring Function	A warning can be issued when a measurement exceeds a set upper or lower limit for each channel during the set monitoring interval.
ON/OFF Signal Input	
Measurement Channel	2 Channels for ON/OFF Signal (Common Ground)
Input Signal	Voltage Input, Contact Input
Input voltage Range	0 to 15V
Lo (On) Detection Voltage	1V or below
Hi (Off) Detection Voltage	3V or above
ON Detection Time	50ms or above
OFF Detection Time	50ms or above
Pull up	5V 4.7kΩ
Recording Method	Pulse Recording Method: Records the number of pulses during the set recording interval (number of rising signals)
Polarity Change Recording Method	Records the time when a rising or falling signal occurs
Recording Interval	Pulse Number Recording Method: Six intervals to select from: 10, 20, 30, 40, 50, 60 minutes
Polarity Change Recording Method	Measurement occurs every second without regard to recording interval and the date and time of any change is recorded.
Recording Capacity	Pulse Number: 2880 readings Polarity Change: 760 readings
Recording Mode	Endless Mode (Overview oldest data when capacity is full)
Monitoring Function	Make monitoring time settings and upper/lower limit settings for the number of pulse signal changes for each channel, when those limit settings are exceeded, a warning notice is sent. It is also possible to make condition settings for signals, and when changes occur outside those conditions during the monitoring period, a warning is sent.
Power	AC Adaptor
External Contact Output (Warning Output)	Contact Output via Photo Relay When operating the warning function OFF-Sate Voltage: AC/DC 50V or below ON-State Current: 0.1A or below ON-State Resistance: MAX 35Ω
Type of Communication	Wired LAN (100/10BASE-T) Wireless LAN (CF card)
Operating Environment	Temperature: 0 to 50°C / Humidity: 20 to 80%RH (No condensation)
Dimensions	H83 x W102 x D28mm
Weight of Main Unit	About 125g
Accessories included in package	Software Set AC Adapter AD-0605 or AD-0607 x 1 LAN Cable LN-20W x 1 Introductory Guide (including Warranty) x 1

Software Specifications

Software	WDR-3 for Windows
Network Settings Utility	Network Initialization Settings, Detailed Network Settings, Login History (On/Off) Settings, Clear History, Communication Time Settings
WDR-3 Web Viewer	Login Settings, LAN Settings, Mail Settings, Clock Settings, Monitor Current Readings, Download Recorded Data, View Settings (Name, Scale, Data Management, Recording, Warning and Message Recipient), Settings Changes (Name, Scale, Data Management, Recording, Warning Settings, Window Customization)
OS	Microsoft Windows 2000 / XP (English)
PC/CPU	A Stable Windows Operating Environment
Memory	Enough memory to stably operate Windows
Hard Disk	More than 10MB free space (More free space is necessary for data)
Monitor	SVGA (higher than 800×600 recommended) · more than 256 colors
LAN	100BASE-TX or 10BASE-T Twisted pair cable confirming to Category 5 (STP/UTP)
Browser	Internet Explorer 6.0 or higher

■In order to use this product via the Internet or cell phone you must first make necessary arrangements with a provider for a line and obtain a global IP address. In addition, to use the mail function it is necessary to have an SMTP server.

⚠ Caution regarding safety

To ensure safe operation, carefully read instructions before using this unit.

Web Site

Product information, FAQ and software update downloads.

http://www.tandd.com/

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T&D CORPORATION
5652-169 Sasaga, Matsumoto
Nagano 399-0033 Japan
Facsimile(+81)263-26-4281
E-mail: overseas@tandd.co.jp

■Distributor

2007.02 16307030101