

SIEMENS



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Remote monitoring and display solutions

Instrumentation readings in any location – including over the web – for around-the-clock monitoring.



Answers for industry.

Get your instrumentation readings where you want them – at your vessel or over the web

We understand the challenges of your process. With your investment in process instrumentation, you know what's in your tanks and vessels at all times. With systems integrated into your control system, operators have information at their fingertips. But when you are off site or elsewhere in your facility and want to know what is in a specific tank, what do you do? Siemens remote monitoring and display solutions offer you the flexibility of getting tank readings locally or from your web browser.

Siemens displays are flexible, easy to install, and built to last:

- **Instrumentation friendly** – compatible with most level, flow, pressure, temperature, weighing, and other process devices
- **Easy to install and operate** – configurable out of the box, so no need for an installation specialist
- **Condition independent** – low light, high light, long distance viewing, remote sites: we have a local or remote solution that will work in most environments
- **Data your way** – universal input options mean you can connect to our devices with your existing equipment: Modbus, RTD, 4-20 mA, thermocouple, digital, and 0 to 10 V
- **Communications options** – a product line that offers a broad range of communications and protocols
- **Remote or internet access to data** – SITRANS RD500 provides remote access to your instrument measurements via web, email, SMS, FTP, and Modbus TCP
- **World-class support** – products from Siemens are always backed by technical support when and where you need it, with online support available around the clock and a global network of specialists

SITRANS RD500 – Anytime, anywhere

SITRANS RD500 allows remote monitoring of many device types using standard communication options such as Ethernet and cellular modem. This is the ideal complement to any remote monitoring application, allowing direct access to instrument readings via computer (such as smart phones, laptops, or most devices supporting a web browser, email, SMS, or FTP).



Remote displays put information where you can see it

Remote displays bring you the flexibility of seeing instrumentation readings in a convenient location for your operators. There are times when information in the control room or on the instrument is not enough. Siemens' selection of displays gives you an inexpensive view into your processes. From a simple display to a universal or multi-line display, you choose what is best for you.



SITRANS RD100

SITRANS RD100 is a 2-wire loop powered, NEMA4X/IP67 enclosed display for indoor and outdoor applications and in safe or hazardous areas.

Hazardous environments are not a problem for the SITRANS RD100. It is approved by FM and CSA as Intrinsically Safe and non-incendive. This gives you peace of mind to install it in dusty or combustible environments.

A wide temperature range for operation from -40 to 85 °C (-40 to 185 °F), means that this display can endure everything from arctic-like conditions to sweltering sunshine, making it ideal to install indoors or outdoors.

The large 3.5 x 1" (8.9 x 2.54 cm) digital display is easy to read. No squinting or magnifying glasses needed!

A quick two-step process for calibration keeps programming simple. Only two non-interacting potentiometers are required.

SITRANS RD200

SITRANS RD200 is a universal input, panel mount display. It accepts a single input of current, voltage, thermocouple, or RTD, making it the right fit for use with most field instruments.

When you need logged data, this is your ideal display. Data can be remotely collected, logged, and presented from as many as 100 displays on your local computer using free downloadable RD software.

Set up SITRANS RD200 as a standard panel mount, or combine it with optional enclosures to house up to six displays, saving you valuable space in your panels.

SITRANS RD200 is simple to set up and program via front panel buttons or remotely using Siemens remote display software.

SITRANS RD200 optional large display

In areas where the path to the remote display is obstructed, the large display option provides greater visibility with a 35 millimeter (1.2 inch) display. That is twice as large as the standard display! Operators can read the SITRANS RD200 at a distance of up to ten meters (30 feet), providing an easy-to-read output.

Dual-line display can show current measurements and a totalized value at the same time



Flexible outputs include 4 to 20 mA, Modbus RTU, and up to eight relays



SITRANS RD300

SITRANS RD300 is an easy-to-read panel mount dual-line display. Need to view more than one piece of information at the same time? SITRANS RD300 features two programmable display lines for providing real time measurements for your application. Process values, rate, total, grand total, units or legends – whatever readings you need.

With flexible outputs including 4 to 20 mA, Modbus RTU, and up to eight relays, SITRANS RD300 can provide pump control, for example, while integrating into most alarm or process control systems.

Local logging and configuration is also supported easily through PC software and 32-point linearization makes non-standard tank shapes as simple to measure as standard tanks. Offering eight brightness levels, this display will provide the ideal illumination level regardless of light conditions and mounting placement.

SITRANS RD300 is the newest addition to Siemens remote digital display family.



Connect to your data from anywhere with SITRANS RD500

Ideal for remote monitoring applications including inventory levels, regulatory monitoring, remote maintenance alarming, or process and environmental monitoring, SITRANS RD500 remote data manager helps you stay connected and informed. SITRANS RD500 provides remote monitoring through datalogging, web access, and alarming for instrumentation and other devices. Bringing smart functionality to your instruments, SITRANS RD500 is remote monitoring made easy.

SITRANS RD500

- **Simple web access** – type an IP address in a web browser and immediately access data from remotely installed devices
- **Ideal instrumentation accessory** – track up to 128 conventional IO instruments remotely
- **Easy setup** – web application supports out-of-the-box operation
- **Flexible communications options** – integrated web and FTP server, email, and SMS for alarming
- **High-capacity datalogger** – capacity to store years of data, supporting up to two gigabytes of removable compact flash memory



With SITRANS RD500, monitor inventory levels, process, environmental, and remote maintenance applications, and get web access to most types of field instrumentation, including flow, level, pressure, temperature measurement, and weighing.



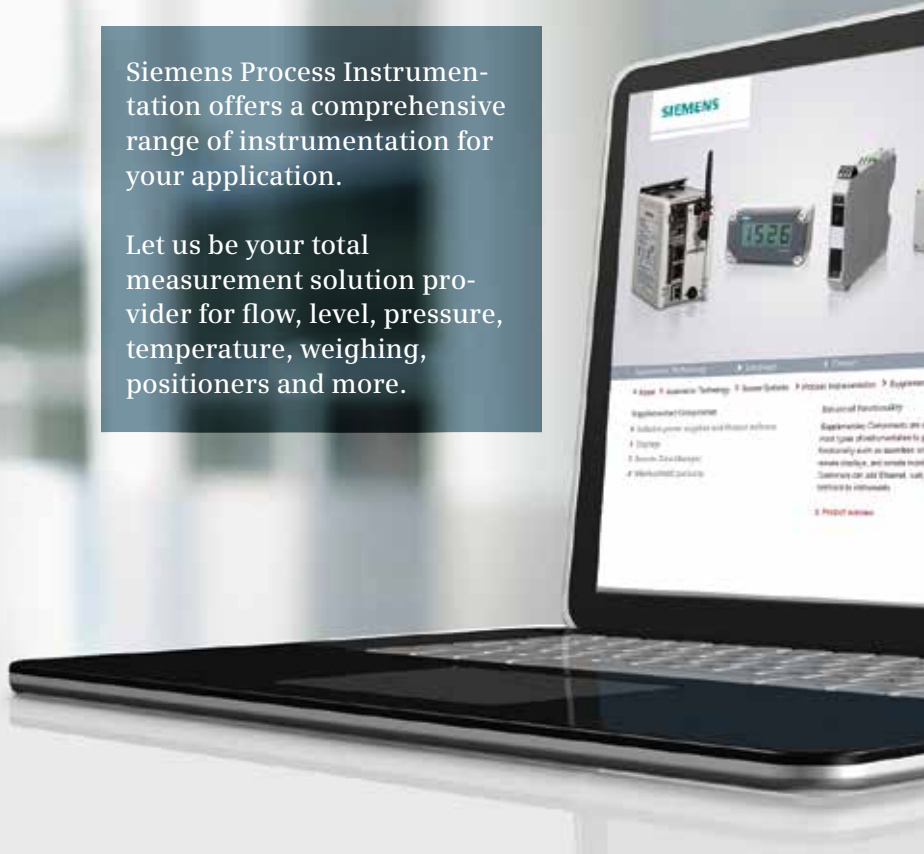
	SITRANS RD100	SITRANS RD200	SITRANS RD300	SITRANS RD500
Order No.	7ML5741	7ML5740	7ML5744	7ML5750
	2-wire-loop powered enclosed remote digital display for process instrumentation.	Universal input, panel mount, remote digital display for process instrumentation.	Dual-line, panel mount, remote digital display for process instrumentation.	Remote data manager for monitoring and data logging, web access, and alarming.
Input types	4 to 20 mA	Universal current, voltage, RTD, thermocouple	4 to 20 mA, 0 to 10 VDC	0 to 10 V, 0 (4) to 20 mA, RTD, TC, digital and Modbus (RS-485, RS-232)
Digits	3.5 digit display	4 digit display	Dual-line 6 digit display	NA
Key features	<ul style="list-style-type: none"> • 2-wire loop-powered • Simple two-step configuration • Intrinsically Safe, non-incendive • Two modes of input allow for easy servicing, with no interruption of loop required • Factory calibrated • Large display 	<ul style="list-style-type: none"> • Easy to read in all conditions • Accepts current, voltage, thermocouple, and RTD signals • Included software supports remote monitoring, programming, data logging alarm acknowledgement • Can be used for alarm indication or process control applications • Provides power to instrument 24 V DC, 200 mA 	<ul style="list-style-type: none"> • Easy to read, dual-line display with eight brightness levels • 32-point linearization, square root or exponential linearization • Nine digit totalizer with total overflow feature • Flexible outputs with up to eight relays and eight digital I/O for process control alarming • Modbus RTU communication protocol • Multi-pump alternation control • Easy setup with RD software (included) 	<p>Number of I/O</p> <ul style="list-style-type: none"> • Serial Modbus RTU devices • 128 conventional I/O RTD/TC 4 to 20 mA/0 to 10 V/digital (optional 16 modules) Communication • Ethernet, Ethernet TCP/IP, HTML, Modbus TCP, FTP, SMTP <p>Option</p> <ul style="list-style-type: none"> • GSM, GPRS, PSTN, 3G Memory • On-board user memory: 4 MB of non-volatile Flash memory • On-board SDRAM: 2 MB • Memory card: Compact Flash Type II slot for Type I and Type II cards; 2 GB max.
Enclosure	NEMA 4X/IP67 impact resistant	NEMA 4X/IP65 front panel	NEMA 4X/IP65 front panel	High impact plastic and stainless steel; installation category I; Pollution degree 2 IP20 Mounting • Snaps onto standard DIN style top hat (T) profile mounting rails according to EN50022 -35 x 7.5 and -35 x 15
Display visibility	25.4 mm (1") high LED	14 mm (0.56") high LED 35 mm (1.2") high LED	Main: 15 mm (0.6") high, red LEDs Second: 12 mm (0.46") high, red LEDs	
Operating temperature	-40 to 85 °C (-40 to 185 °F)	0 to 65 °C (32 to 149 °F)	-40 to 65 °C (-40 to 149 °F)	<ul style="list-style-type: none"> • Storage temperature: -30 to 70 °C (-22 to 158 °F) • Operating temperature: 0 to 50 °C (32 to 122 °F) • Humidity: 80% max relative humidity, non-condensing, from 0 to 50 °C (32 to 122 °F)

Find out more:

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Siemens Process Instrumentation offers a comprehensive range of instrumentation for your application.

Let us be your total measurement solution provider for flow, level, pressure, temperature, weighing, positioners and more.



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Available as pdf only

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To ensure the secure operation of a plant or machine it is also necessary to take suitable preventive action (e.g. cell protection concept) and to integrate the automation and drive components into a state-of-the-art holistic industrial security concept for the entire plant or machine. Any third-party products that may be in use must also be taken into account. Please find further information at: <http://www.siemens.com/industrialsecurity>

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