SM800 Series: PLC, Data Logger, & Communications Controller

You can check conditions, perform control or even re-program anytime from anywhere for one or multiple sites. Any alarm or event can trigger a call to your PC, MTU, or pager.

Data Logging: The SM800 continuously tracks performance of any equipment or process over an extended period of time. The unit stores 5,600 events (22,000 optional), including a date and time stamp, in non-volatile memory. All recorded event data is easily transferable into Microsoft ACCESS, EXCEL or any DDE compatible software.

Remote Monitoring: The SM800 allows you to monitor various points in a single piece of equipment, a complex process, or a complete facility. While connected to the SM800 you know real time status of any point in the system.

You can call the system on demand or have it call you on an alarm condition or time basis.

Intelligent Control: You can perform real-time control of any point in your system, and/or program the SM800 to control your system. In addition, you can perform control based on any arithmetic calculations such as, Min./Max., totalization, run-times, etc.

Communications: Every unit has 3 communication ports; two standard RS232 and either an RS485, RS422, RS232, a telephone or a ra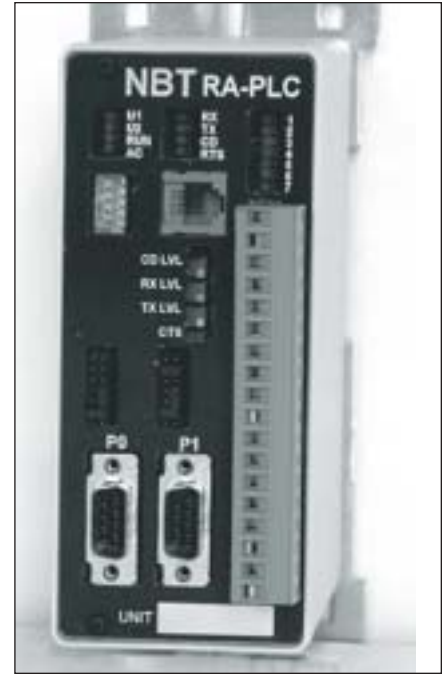dio modem. This allows the SM800 to be configured in a system within a hierarchical network in which remote units can communicate with each other as intelligent nodes on a network. The peer to peer capability allows remote units to call out to another unit on a timed basis, alarm condition, or either.

Alarming: When user defined problems are detected, the SM800 notifies designated individual(s) so remedial action can be taken. It calls up to six numbers including TRUs, PC, and/or pagers.

Functional and Versatile: The full calculation capabilities and internal BASIC compiler allow the user to perform virtually any computation.

User friendly programming with a "fill-in-the-blank" spreadsheet is easy to understand. This ensures the proper performance of your equipment or process. No need to learn complicated programming languages. Once programmed, the connection to your equipment or process is simple.

Cost Effective: By combining the functionality of a programmable logic controller, a data logger and a communications controller into one very powerful unit, you have unmatched functionality at a cost effective price.

Proven and Supported: Users of NBT's equipment include government agencies, utilities, OEMs, Engineers, and Integrators. The SM800 is currently performing a diverse range of tasks from water/waste water systems and landfill monitoring to site remediation data logging and alarming.

Let NBT provide a solution for your application. Simply give us a call and our sales support staff will assist you.

	Slave RTUs		Programmable Masters	
	SM305	**SM315**	**SM805**	**SM805**
Internal Analog & Digital I/O			**W/ IOTN01**	**w/ IOTN02**
Analog Inputs				
Base Quantity	1	4	1	4
Resolution	.5%	.5%	.2%	.2%
Input Range	5VDC/4-20ma.	5VDC/4-20ma.	5VDC/4-20ma.	5VDC/4-20ma.
Analog Outputs				
Base Quantity	--	--	1	--
Resolution	--	--	.2%	--
Input Range	--	--	5VDC/4-20ma	--
Digital Inputs				
Base Quantity	4	1	4	2
Input Range	to 120V AC/DC	to 120V AC/DC	to 120VAC/DC	to 120VAC/DC
(Optional) Internal Expansion	4	4	--	--
Digital Outputs (Relay Contact)				
Base Quantity	4	2	3	2
Output Range	to 120V AC/DC	to 120V AC/DC	Relay Driver	Relay Driver
(Optional) Internal Expansion	4	4	--	--
Internal Communication Ports				
Total ALL types	1	1	3	3
Leased Line or 1200 Baud Radio	1	1	1	1
RS232 Serial	1	1	2	2
2400 Dial / 9600	--	--	1	1
Modular Expansion I/O			Up To 15 Modules	Up To 15 Modules
Analog In	NA	NA	8	8
Analog Out	NA	NA	4	4
Digital In	Internal (4/8)	Internal (4/8)	8	8
Digital Out	Internal (4)	Internal (4)	8	8
Internal Memory and Logging				
Internal Registers	Cycles & Runtimes Min. & Max.	Cycles & Runtimes Min. & Max.	Cycles & Runtimes Min. & Max.	Cycles & Runtimes Min. & Max.
Events Logging (User Definable)	NA	NA	To 22,000 Events	To 22,000 Events
General Features				
Power Draw w/ Modem	85ma.	85ma.	150ma.	150ma.
Operating Temperature	-20C$^\circ$ to 70C$^\circ$	-20C$^\circ$ to 70C$^\circ$	-20C$^\circ$ to 70C$^\circ$	-20C$^\circ$ to 70C$^\circ$
Relative Humidity	0-95%	0-95%	0-95%	0-95%
Base I/O Case Dimensions	5.5in.(H) x1.5in. (W) x 3.5in.(D)	5.5in.(H) x1.5in. (W) x 3.5in.(D)	5.5in.(H) x2.5in. (W) x 3.5in.(D)	5.5in.(H) x2.5in. (W) x 3.5in.(D)

SM800 and SM300 Series Controllers

These Controllers are being used in a variety of Telemetry, SCADA, and Process Control applications. Their built-in features simplify system design, and replace multiple instruments at significant savings.

NBT Municipal Water/Waste Water Systems & Landfills

Whether you need limited or full functionality, NBT has you covered. Together, the SM800 & SM300 instruments provide:

- Communications capabilities of RTUs
- Control capabilities of PLCs
- Recording capabilities of data loggers
- Alarming capabilities of dialers
- Direct reports/alarms to PC, FAX, pagers
- Open architecture & low cost remote I/O

Combined with our complete line of software products, NBT is the "smart choice" for all your telemetry, process control, and SCADA systems.