NS-Runtime

Achieve machine/line monitoring and data logging on your office computer.

Machine Viewer

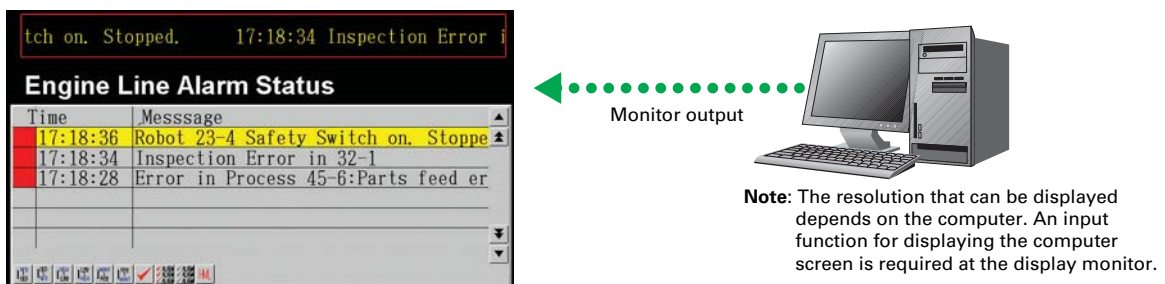### Machine monitoring in an office environment.

There is no need to create complex host applications. Moreover, when an alarm occurs, a PDF file can be displayed as maintenance information. NS Series screens can be reused on the computer, and screens can be also newly created independently of touch panels at the production site.

Ethernet

Monitoring Device Alarms

Displaying Maintenance Information (PDF File)

Wide Screen

Computer output can be displayed on another wide-screen monitor.

XGA (1,024 x 768 dots) and up to a a maximum screen size of 3,840 x 2,400 is supported. Alarms occurring in devices or the line can be monitored.

Monitor output

Note: The resolution that can be displayed depends on the computer. An input function for displaying the computer screen is required at the display monitor.

Data Logger

Log large amounts of data using a personal computer.

Data can be logged through background processing, with up to 160,000 points stored in one file. The logged data is stored in CSV format, and data can be displayed on data log graphs.

Example: 160,000 Points
Data can be logged for approximately 7.4 days, assuming data is logged every two seconds for 12 hours a day. By using automatic file saving, data logging can be continued even longer than 7.4 days.
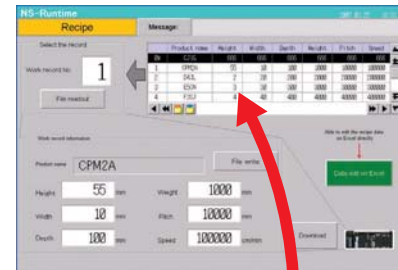

CSV format

Stored Data

Recipe Handling

Checking machine data or switching processes from a host computer is easy.

Parameter groups in the PLC can be transferred together to a computer, and the transferred data can be checked and edited in CSV format, e.g., using Excel. The edited data can then be transferred together back to the PLC.
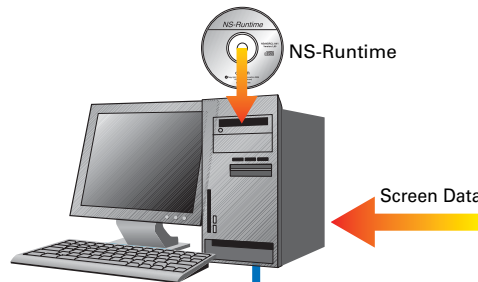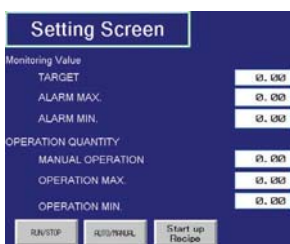
	A	B	C	D	E
1	001	CJ1G	666	666	666
2	002	CPM2A	55	18	100
3	003	D4JL	2	20	200
4	004	E5CN	3	30	300
5	005	F3SJ	4	40	400

Recipe data

CSV format

Easy Installation

After installing the NS-Runtime, just place the screen data in a specified folder and start, that's it.

To get started, just install the NS-Runtime in the computer and place the screen data in the applicable folder. NS/NSJ-series screens and NS-Runtime screens can all be managed using one single tool.

NS-Runtime
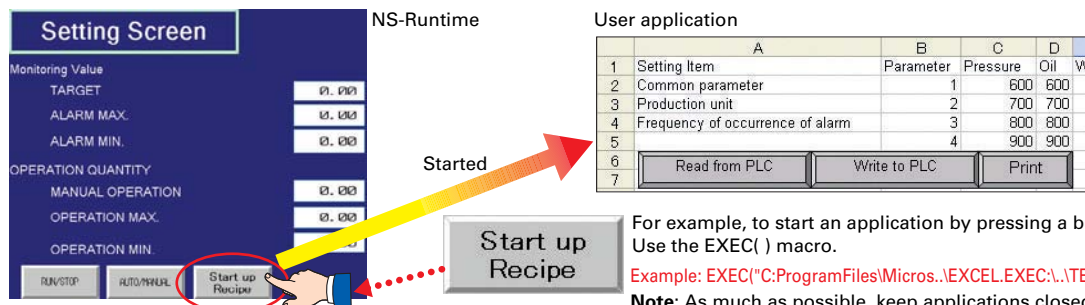
Screen Data

To PLC

Screen designer: CX-Designer (CX-One)

Note: The NS-Runtime will operate in a computer environment even if the CX-Designer installed is not installed. The hardware key (USB dongle) that is supplied with the NS-Runtime is required for operation.

Application Startup Function

User applications can be started from NS-Runtime.

Applications can be started simply by pressing buttons on the screen.

NS-Runtime

User application

	A	B	C	D	W
1	Setting Item	Parameter	Pressure	Oil	
2	Common parameter	1	600	600	
3	Production unit	2	700	700	
4	Frequency of occurrence of alarm	3	800	800	
5		4	900	900	
6	Read from PLC	Write to PLC		Print	
7					

Started

Start up Recipe

For example, to start an application by pressing a button… Use the EXEC( ) macro.

Example: EXEC("C:ProgramFiles\Micros..\EXCEL.EXEC:\..\TEST2.xls.....);

Note: As much as possible, keep applications closed that are not required for operation.

• Do not use this product for 24-hour operation in an FA environment.
• OMRON shall not be responsible if the computer or application does not operate properly due to problems such as noise.
• OMRON shall not be responsible for any problems that may be caused by any applications other than OMRON products.