

## Product Overview

MIURA's ER-220USC, also known as SteamNet, is a monitoring, reporting and communication device for MIURA boilers and accessories utilizing an industrial PC, 19" touchscreen display and PLC. SteamNet provides real-time monitoring with user-friendly equipment displays, automatically generates reports for easy auditing, alerts operators to system alarms and notices, outputs system data via Modbus TCP for simple connection and robust reporting to building automation systems, and logs operational data for future reference.

## Standard Features

- **Real-Time Monitoring**

Keep track of the complete MIURA system with an overall and individual equipment monitor screens. The overview provides a customized, high-level view of the system along with a trend graph of system pressure and steam generated. The individual screens provide dynamic graphics and contextual information for each piece of equipment.

- **Report Generation**

Create system reports automatically (daily, weekly, etc.) and manually as needed for custom time spans. Reports include operational data such as boiler runtimes, fuel usage, and steam generation. These can be viewed on-screen, printed, or exported.

- **Alarm Monitoring and History**

Relay connected equipment alarms in real-time while maintaining a log of all alarms for trend analysis and maintenance support.

- **Data Output & Building Integration Automation**

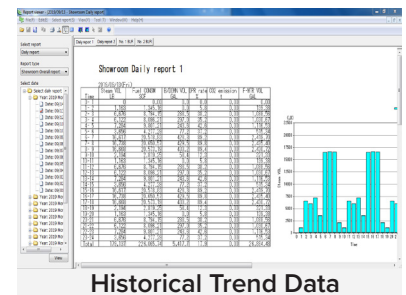
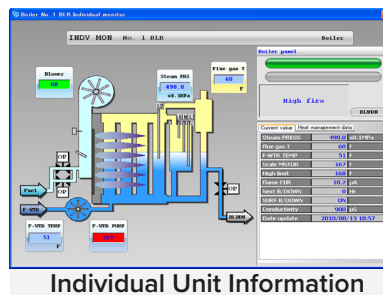
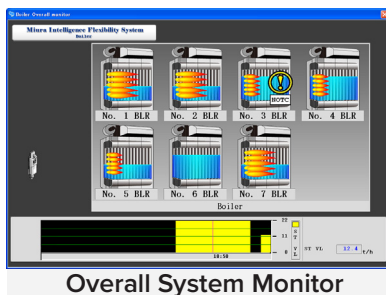
Modbus TCP makes data available for use with building automation systems. A wide range of information is available from each system component including boilers (pressure, water level, temperatures, fuel consumption, steam output, etc.), water softeners (operating mode, water consumption, alarms, etc.), and Colormetry (hardness, operating status, etc.).

- **Historical Trending**

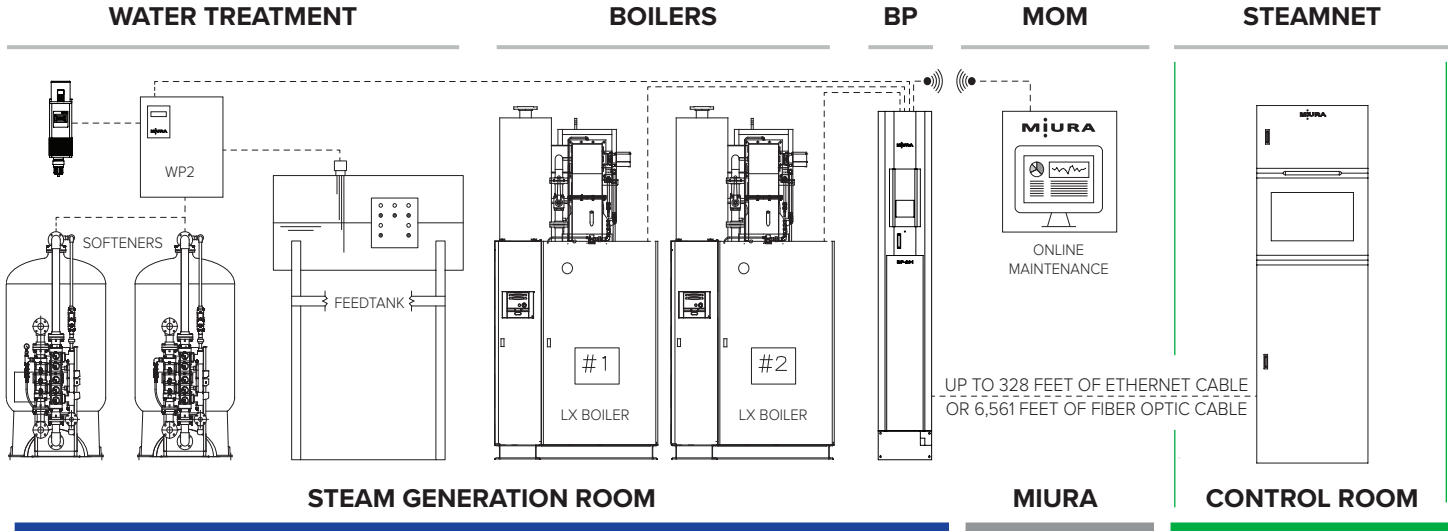
View information based on equipment data recorded every 10 seconds. The system steam pressure and output are presented in a graphical, interactive format based on a user-specified timespan.



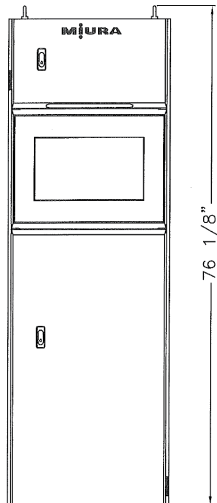
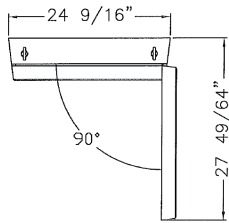
## SteamNet Interface



## Communication Diagram



## Specifications



Item	Unit	Specification	Remarks
<b>Model</b>	—	<b>ER-220USC</b>	
<b>Connected equipment</b>	<b>Boiler</b>	—	LX and EX series
		unit(s)	20 (maximum)
	<b>System integrated water softener</b>	—	MW-U
		unit(s)	9 (maximum)
	<b>Colormetry</b>	—	CMU-324HE & CMU-324GE
		unit(s)	10 (maximum)
	<b>Pressure Transducer</b>	unit(s)	4(maximum)
	<b>Boiler system operation panel</b>	—	BP-201STA
	unit(s)	4 (maximum)	(Note 1)
<b>Water treatment control unit for boiler</b>	—	WP2-200A	(Note 2)
	unit(s)	4 (maximum)	
<b>Chemical Pump</b>	—	CPI-30MI and 70MI	(Note 3)
<b>Host network</b>	<b>Connection method</b>	—	Ethernet
	<b>Communication type</b>	—	Modbus TCP
	<b>IP address</b>	—	As required
<b>Power supply</b>	—	120 VAC, 50/60 Hz, single phase	
<b>Electric capacity</b>	kVA	1.2	
<b>Product mass</b>	kg (lb)	87 (192)	
<b>Operating environment</b>	<b>Temperature</b>	°C (°F)	5 to 40 (41 to 104)
	<b>Humidity</b>	%	10 to 80
<b>Overall product dimensions (W × D × H)</b>	mm (in)	624 × 160 × 1,880 (24.6 × 6.3 × 74.0)	

### Note 1

Up to 4 units can be connected. However, the MI control is possible only for up to four systems. When four units are connected, only one system can be controlled per unit.

### Note 2

For the WP2-200A, only the feed water tank display and alarm notification are enabled.

### Note 3

The chemical feed pumps are connected via the WP2 controller.

### Note 4

Set the IP address according to the environment where the system is used.

### Note 5

Ensure that there is no risk of condensation or freezing.