Web Integrated Network System

ESPEC ONLINE SERIES

ESPEC OnlineCore
OnlineCORE
ESPEC OnlineConverter
OnlineCONVERTER
In parallel to development of new technologies and industrial products, demand of coordination of test equipment and surrounding devices is increasing. ESPEC has developed new product "ESPEC ONLINE SERIES" that can provide you easy-to-use and advanced functions for test chamber management through the network system.

Online operation expands environmental test potential. The best solution for centralized control and the upgrade of test equipment’s functions.

The combination of ESPEC ONLINE SERIES and Ethernet makes possible to design your own centralized control system. Remote operation on web browser opens the door to your new test management.
Do you have problems in management of your test chambers?

CASE 1
If several languages would be available, I could manage it more easily.

CASE 2
It is troublesome to go around several test areas in order to check out test settings or their results etc.

CASE 3
I wish the transmitting program pattern data or storing test results would be much easier.

CASE 4
It takes me time to input program patterns of different test standards.

CASE 5
I want to control and manage various test equipments by using only one computer...

CASE 6
I want to find out errors or problems of test chamber immediately!

CASE 7
I want to save my time visiting a test area just for setting up the test chambers.

CASE 8
I want to have a better overview of test equipment’s operating schedule, so that several tests could be performed efficiently.

CASE 9
Regardless of manufacturer differences, I want to control all chambers at the same time.

CASE 10
Is there any way I can monitor network cameras, measuring instruments or other devices integrally?
ESPEC ONLINE SERIES makes it easy!

CASE 1: OnlineCORE OnlineCONVERTER
Multi-language Support
English, Chinese (Traditional, Simplified), Korean, German, Russian, Spanish and Japanese are now available.

CASE 2: OnlineCORE
Centralized Control Monitor
You can observe current operating status of all test equipments by one computer. (Up to 100 test equipments)

CASE 3: OnlineCONVERTER
Program Pattern Editing
Program pattern data can be stored on a computer and transferred to test chambers in a quick and easy way.

CASE 4: OnlineCONVERTER
Download of Test Pattern
Program patterns for various test standards can be downloaded from the Test Navi product membership site www.test-navi.com and copied to test chambers easily.

CASE 5: OnlineCORE
Test Pre-completion Notification
You will be notified by an email shortly before the test finishes.

CASE 6: OnlineCONVERTER
Alarm Notification Mail
You will be notified by an email, if any troubles have occurred to the test chambers.

CASE 7: OnlineCONVERTER
Schedule Management
You can administrate test schedules of several test chambers as well as surrounding devices.

CASE 8: OnlineCORE
Remote Control
By setting temperature and humidity condition via a web browser, you can operate test chambers remotely.

CASE 9: OnlineCORE
Multi Connection to Several Test Chambers
Connection with other manufacturers’ test chambers is also supported. For more details, please contact us or your distributors.

CASE 10: OnlineCORE
Surrounding Device Monitor
Connection to several surrounding devices, such as network cameras, measuring instruments is also supported.
**ESPEC OnlineCore**

**OnlineCORE**

Model : PCS-ES

The centralized control system, which is recommended for multiple test chamber user.

You can easily observe the operational status of environmental test chambers by connecting to an existing intranet. With this function, you can also connect to various surrounding devices like network cameras and test devices, and also to test chambers of other manufacturers.

<table>
<thead>
<tr>
<th>Schedule management</th>
<th>Peripheral device monitor *1</th>
<th>Test pre-completion notification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centralized control monitor</td>
<td>Multi connection to several test chambers *2</td>
<td>Multi-language support</td>
</tr>
</tbody>
</table>

*1 See the next page for applicable models.
*2 For more detailed information for cooperativity or connectivity or setting up the centralized monitoring system, please contact ESPEC.

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**ESPEC OnlineConverter**

**OnlineCONVERTER**

Model : PN5-CN

An adopter for test chambers which do not support Ethernet connection.

Using this adapter, you can connect to the LAN Network only by connecting it to the RS-485 port. You can check the operational status of several test equipment remotely on the Web browser.

<table>
<thead>
<tr>
<th>Remote monitoring</th>
<th>Alarm notification mail</th>
<th>Program pattern editing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote control</td>
<td>Data logging &amp; automated transfer</td>
<td>Multi-language support</td>
</tr>
</tbody>
</table>
### Applicable Models and Conditions

#### Products Supported by OnlineCORE

Please check if the ESPEC test chamber unit is equipped with an Ethernet (LAN) port.

<table>
<thead>
<tr>
<th>Product name</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (and Humidity) Chamber / Platino J Series</td>
<td>PR, PL, PU, PSL, PG, PHP, PDR, PDL, PCR</td>
</tr>
<tr>
<td>Temperature (and Humidity) Chamber Walk-in E Series</td>
<td>EBE, EBL, EBR, EBF, EBU, EBUU, TBE, TBL, TBR, TBF, TBU, TBUU</td>
</tr>
<tr>
<td>High-power Temperature (and Humidity) Chamber (N-instrumentation)</td>
<td>ARG, ARL, ARS, ARU</td>
</tr>
<tr>
<td>Bench-top Type Temperature (and Humidity) Chamber</td>
<td>SH/SU-2</td>
</tr>
<tr>
<td>Constant Climate Cabinet</td>
<td>LH/LHL/LHU/LU-4</td>
</tr>
<tr>
<td>Compact Ultra Low Temperature Chamber</td>
<td>MC-2(R)</td>
</tr>
<tr>
<td>Stability Test Chamber</td>
<td>CSH-2(HG)</td>
</tr>
<tr>
<td>Stability Test Room</td>
<td>CWH</td>
</tr>
<tr>
<td>Air Thermal Shock Chamber</td>
<td>TSA-3, TSD-101-W</td>
</tr>
<tr>
<td>Web Manager</td>
<td>WMA-STD, WMA-TS, WMA-Multi</td>
</tr>
<tr>
<td>Web Controller</td>
<td>**</td>
</tr>
<tr>
<td>RS-485 LAN Converter</td>
<td>CONV-L4</td>
</tr>
<tr>
<td>ESPEC OnlineConverter</td>
<td>PNS-CN</td>
</tr>
</tbody>
</table>

Please contact ESPEC for more information, which products to be connected.

#### Products Supported by OnlineCONVERTER

<table>
<thead>
<tr>
<th>Product name</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platinous K Series (P-instrumentation)</td>
<td>PR, PL, PSL, PDR, PDL, PCR, PWL, PU, PG, PWU</td>
</tr>
<tr>
<td>Walk-in H Series (P-instrumentation)</td>
<td>EBE, EBL, EBR, EBF, EBU, EBUU, TBE, TBL, TBR, TBF, TBU, TBUU</td>
</tr>
<tr>
<td>Free Access Environmental Chamber (P-instrumentation)</td>
<td>PFL, PFU</td>
</tr>
<tr>
<td>High-power Temperature (and Humidity) Chamber (P-instrumentation)</td>
<td>ARG, ARL, ARS, ARU</td>
</tr>
<tr>
<td>Temperature and Vibration Combined Environmental Test Chamber (P-instrumentation)</td>
<td>PVL, PVS, PVU, PVG</td>
</tr>
<tr>
<td>Bench-top Type Temperature (and Humidity) Chamber</td>
<td>SH/SU-1</td>
</tr>
<tr>
<td>Constant Climate Cabinet</td>
<td>LH/LHL/LHU/LU-3</td>
</tr>
<tr>
<td>Compact Ultra Low Temperature Chamber (P-instrumentation)</td>
<td>MC-1P</td>
</tr>
<tr>
<td>Faster Temperature (and Humidity) Chamber</td>
<td>SMG, SML, SMS, SMU</td>
</tr>
<tr>
<td>Rapid-Rate Thermal Cycle Chamber</td>
<td>TCC-150W</td>
</tr>
<tr>
<td>Highly Accelerated Stress Test System</td>
<td>EHS-1(M)(MD) ***</td>
</tr>
<tr>
<td>Thermal Shock Chamber</td>
<td>TSA-1, 2, TSD-100</td>
</tr>
<tr>
<td>Compact Thermal Shock Chamber</td>
<td>TSE-11-A</td>
</tr>
<tr>
<td>Liquid to Liquid Thermal Shock Chamber</td>
<td>TSB-21, 51</td>
</tr>
<tr>
<td>Temperature Chamber (M-instrumentation)</td>
<td>PV(H)-212M, 222M, 232M, 332M, 5PH(H)-102M, 202M, 302M, 402M, 1PH(H)-202M</td>
</tr>
<tr>
<td>Temperature Chamber (M-instrumentation)</td>
<td>SPPH 102M, 202M, 5PH(H)-102M, 202M</td>
</tr>
<tr>
<td>Temperature Chamber (M-instrumentation)</td>
<td>PVH(C)-212M, 232M, 332M, PVHC-232MS, 332MS</td>
</tr>
</tbody>
</table>

** Please note: Even if a device is equipped with an Ethernet port, you still may not be able to connect to the network.

** Supply from ESPEC NORTH AMERICA, INC.

● ESPEC chamber which equips RS-485 can be connected to OnlineCore via OnlineConverter.

● Before connecting to the LAN, please check whether your test chambers is equipped with RS-485 port. Depending on the manufacturing year or the option combination, RS-485 port may not be equipped.

Please note that OnlineConverter cannot be connected to the chamber, if the RS-485 port is already used for another function.

● In case of connecting ESPEC products which are not listed above or test equipments of other manufacturers, please contact ESPEC.

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Automation from Test Plan to Report Creation

This package option adds features such as saving test data and monitoring test progress to "OnlineCore," our web integrated network system. This new testing style brings much more convenience and user-friendliness to Espec chambers.
MAIN CHARACTERISTICS

1. Large Test Data Storage
   - Test data files are transferred from Espec chambers and saved to OnlineCore.
   - About 10-year operation data of 100 chambers can be saved. (It may differ by logging interval.)

2. Automated Test Data Transfer
   - In case of losing data stored in OnlineCore, test data is automatically transferred to specified FTP server as backup.
   - FTP server is not supplied.
   - Data management (collection and save) is in accordance with ISO/IEC 17025.

3. One Click Test Report
   - From test schedule and operation record, test report is created by clicking a button.
   - Graph, free comments, simple analysis, and export to CSV file are available.

4. Test Plan and Progress Checking
   - In conjunction with chamber Gantt chart is automatically updated.
   - According to test progress, estimated test closing time is automatically calculated. In case the estimated test closing time exceeds reserved period, it alerts by e-mail.

5. Chamber Utilization Checking
   - Analyzing utilization helps to plan for additional chambers.
   - Idle chambers can be recognized.
   - It calculates utilization and total operation time in the arbitrary period.

6. Monitor Display by Group
   - Display the connected chambers in arbitrary group such as arranged group by floor or room.
   - Up to 10 groups to register.