



Network solutions

Networking with Labotek FMD products.

This paper gives a quick introduction to the Labotek Web solution



- Access from any web browser
- Receive error messages via e-mail or SMS
- Remote access via modem or Ethernet
- Wireless access via GSM-modem
- Remote diagnostics
- Based on internet protocols (TCP/IP)
- Online manuals
- Profibus DP

In the last 20 years, the Internet has grown, from a humble research tool, to a prominent position in our everyday life, based on secure accepted technologies such as TCP/IP, HTTP, HTML, FTP, Java, etc. It has abolished distance, and will continue its rise with ever faster data rates, powerful new features, and steadily falling real cost. Now this low-cost Internet technology is also moving into the modern factory environment.

Labotek A/S wants to be the leading in networking solutions. Therefore Labotek has added TCP/IP networking to the new FMD series granulate dryers.

The benefits of TCP/IP based protocols are

TCP/IP is an open and accepted standard.

HTTP enables access from any computer with a web browser.

Established infrastructure can be utilized (SMTP, routers, Intranet, Internet..)

Standard Ethernet leads to very simple and inexpensive installation procedure - requires no service technician.

Easy access via standard web browser.

Monitor and control the FMD operation remotely from any web browser. No external software is required – only a web browser is needed.

Configure the FMD to send an E-mail or SMS message to be notified when important events occur on the FMD.

View the FMD event log in a web page.

Online-manuals. No need to waste time looking for the manual – it's in the machine – just a few mouse clicks away.

Access control to minimize risk of unintended configuration changes. Two Privilege levels limits normal user to basically start, stop and monitor the FMD.

Privileged level allows manager to set drying temperature and advanced configuration.

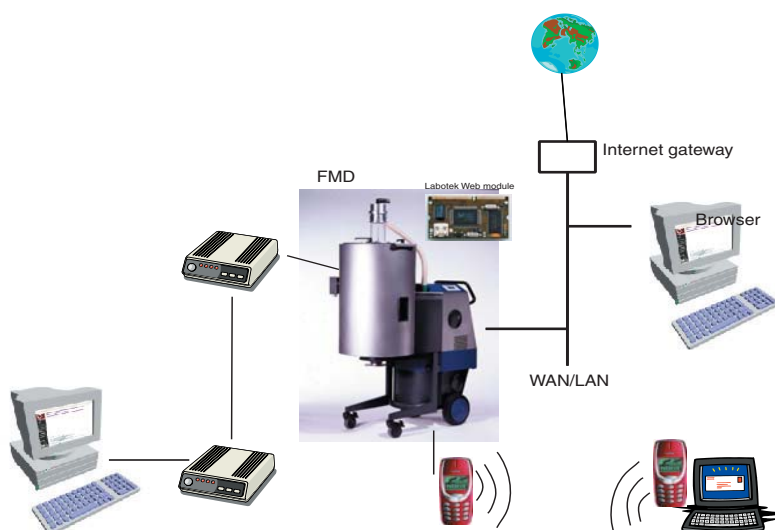


Connection possibilities.

Web access via

- Ethernet.
- Analog modem
- GSM modem

The FMD has Ethernet connector for direct connection to intranet. Connect modem for remote TCP/IP access where connection via the internet/intranet is not possible or desired. If no telephone line is available a GSM modem can be attached to the FMD instead.



Future enhancements.

Labotek FMD is prepared for WAP and Profibus.

Profibus

The Siemens DP/RS232C Link module gives the possibility to connect the FMD to an existing Profibus DP network.

The Profibus DP makes it possible to control and monitor the FMD from a central control station (SCADA)



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