Struers LAN Module



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Installation Manual

FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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Always state Serial No and Voltage/frequency if you have technical questions or when ordering spare parts. You will find the Serial No. and Voltage on the type plate of the machine itself. We may also need the Date and Article No of the manual. This information is found on the front cover.

The following restrictions should be observed, as violation of the restrictions may cause cancellation of Struers legal obligations:



Struers LAN Module Safety Precaution Sheet

To be read carefully before use

- 1. Installation and configuration of the Struers LAN Module must be carried out by the network administrator or somebody else trained in setting up computer equipment.
- 2. The operator(s) should be fully aware of the use of the equipment according to the Instruction Manual, located on the Instruction Manual CD.

The equipment should only be used for its intended purpose and as detailed in the Instruction Manual. The accessory is designed for use with equipment supplied by Struers. If subjected to misuse, improper installation, alteration, neglect, accident or improper repair, Struers will accept no responsibility for damage(s) to the user or the equipment.

Dismantling of any part of the equipment, during service or repair, should always be performed by a qualified technician (electromechanical, electronic, mechanical, pneumatic, etc.).

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1. Setup of LAN module

Installing the Struers LAN Module in the Dosing Unit

- Switch off the TegraPol /TargetMaster.
- Disconnect the dosing unit (TegraDoser-5 or TargetDoser).
- Unscrew the 6 screws from the back of the dosing unit and remove the plate with the pumps.



■ Insert the Struers LAN Module in the slot.



- Press the module forward ① and click into place ②.



2

- Re-mount the back plate with the pumps and secure with the 6 screws.
- Re-connect the dosing unit.
- Switch the TegraPol/TargetMaster on.
- Removing the Struers LAN Module
- Press aside the two tabs holding the module.



The Struers LAN Module will drop away from the dosing unit and can then be removed.

Configuring the Struers LAN Module

Setting up the PC

The Struers LAN Module is configured for IP address 192.168.0.1 by default. The IP address can be changed from a PC with a web browser.

To avoid conflict with other equipment on the LAN, connect a laptop and the dosing unit directly using a **CROSSED** 10/100 Base T Network cable, Cat.5 (also called a UTP Patch cable with RJ45 connectors. This cable is usually red).

To communicate between PC and the Struers LAN Module the laptop must be set up correctly. The IP address and subnet mask have to be configured first. To do this you need administrative rights on the laptop.

Note: The following sample screens are generated when installing Struers LAN Module using Windows Vista. There may be variations when installing on other Windows operating systems.

From the **Start** menu select **Network**.



■ Select Network and Sharing Center.



■ Select Manage network connections.

💛 🔛 👻 🕶 Control Panel 🕶 Ne	etwork and Sharing Center	🔻 🛃 Search	2
e Edit View Tools Help Tasks View computers and devices	Network and Sharing Cen	ter	
Connect to a network Set up a connection or network <u>Manage network connections</u> Diagnose and repair	DK_MRT (This compute	struers.local	View full map
	💐 struers.local (Domain	network)	Customize
	Access	Local and Internet	
	Connection	Local Area Connection	View status
	Sharing and Discove	ry	
	Network discovery	o On	•
	File sharing	On On	•
	Public folder sharing	© Off	•
	Printer sharing	Off	•
See also	Media sharing	© Off	•
Internet Options Windows Firewall Windows Mobile Device Center	Show me all the files and fold Show me all the shared netw	ders I am sharing vork folders on this computer	

Double click on Local Area Connection.





Click on **Properties** and click Continue when the Windows UAC window pop's up.

General			
Connection			
IPv4 Connectiv	/ity:		Internet
IPv6 Connectiv	/ity:		Local
Media State:			Enabled
Duration:			03:48:17
Speed:		1	00.0 Mbps
Details]		
Activity			
	Sent —	-	Received
Bytes:	16.478.388	10	6.124.274
Properties	🕐 Disable	Diagnose	
			Close

■ Select Internet Protocol Version 4 and click Properties.

Networking	
Connect using:	
Intel(R) 82566DM Gigabit Network Connec	tion
	<u>C</u> onfigure
This connection uses the following items:	
 Client for Microsoft Networks Trend Micro NDIS 6.0 Filter Driver QoS Packet Scheduler File and Printer Sharing for Microsoft Networks File and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I Link-Layer Topology Discovery Responded 	works /O Driver ler
Install Uninstall Description Transmission Control Protocol/Internet Protocol wide area network protocol that provides comm across diverse interconnected networks.	Properties
ОК	Cancel

- Check Use the following IP address.
 Set the IP address to: 192.168.0.2
 - Set the **Subnet mask** to: 255.255.255.0

General				
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator			
C Obtain an IP address automatically				
☐ Use the following IP address:—				
IP address:	192.168.0.2			
Subnet mask:	255 . 255 . 255 . 0			
Default gateway:	· · ·			
C Obtain DN5 server address aut	omatically			
└ Use the following DNS server a	ddresses:			
Preferred DNS server:	· · · ·			
Alternate DNS server:				
	Advanced			
	OK Cancel			

Start the Internet Browser (in the following example Internet Explorer 7).

- My http://intranet/ Edit Favorites View Tools Help Links 🏉 D File Delete Browsing History... 🚖 🏟 / Struers A/S - Inti Diagnose Connection Problems... Pop-up Blocker ۲ Phishing Filter ۲ Manage Add-ons ۲ Subscribe to this Feed,... Feed Discovery b Windows Update Create Mobile Favorite... Internet Options
- Select **Tools** and then **Internet Options**.

Select the **Connections** menu and click on **LAN Settings**.

		_	Add
			Add VPN
			Remove
Choose Settin server for a c	igs if you need to config onnection.	jure a proxy	Settings
Never dia O Dial when O Always d	il a connection iever a network connect al my default connectior	tion is not prese	nt
Current	None		Set default
Local Area Net	work (LAN) settings —		

■ Make sure that *none* of the boxes are checked.

Automatic	ally detect settin	ngs	
🗌 Use autor	matic configuratio	on script	
Address			
dial-up or	VPN connections	;).	
Address:		Port:	Advanced
_			

Click **OK** twice to return to the Internet Browser window.
 Enter the URL: <u>http://192.168.0.1</u>

The main page appears:



Click on the link CIP CONFIG and the following screen will appear.

nter Nets	work Passwo	rd	? ×
@	Please type y	our user name and password.	
1	Site:	192.168.0.1	
	Realm	/setup/setup	
	User Name	1	
	Password	[
	🔲 Save this	password in your password list	
		ОК С	ancel

A prompt for a user name and password will appear. Enter 'admin' for both:

er Netv	vork Passwo	rd ?
?	Please type y	our user name and password.
3	Site:	192.168.0.1
	Realm	/setup/setup
	User Name	admin
	Password	XXXXX
	🔲 Save this	password in your password list
		OK Cancel

■ Click **OK** and the following page will appear:

t Internet Explorer
Tools Help
🛛 😡 Search 👔 Favorites 🗳 History 🛛 🖏 🍜 🔯 👻 🗐
etup/setup
💽 💏 Search Web 🛛 🍳 Search Site 🔢 🚯 Page Info 👻 🔂 Up 👻 🥒 Highlight
IP address (192.168.0.1): 192.168.1.17
Subnet mask (255.255.255.0): 255.255.255.0
Default gateway (0.0.0.0): 192.168.1.1
Undo Apply

- Enter the new IP address, Subnet mask and the Default gateway. All these addresses must fit the address system in your LAN otherwise communication between your network and the dosing unit cannot be established.
- Click Apply to save the settings.
- The new setting will be applied and the module will reboot. This will take approximately 20 seconds and the connection will be lost. The Struers LAN module is now ready for your LAN.
- Remove the CROSSED UTP cable between the dosing unit and the laptop and connect the dosing unit through a hub or switch to the LAN using a STRAIGHT 10/100 Base T Network cable, Cat.5 (also called a UTP Patch cable with RJ45 connectors).

The IP address can be changed if desired. The URL entered in the browser must contain the IP address that assigned last. If you assigned the IP address 192.168.1.17 then you will have to enter the URL http://192.168.1.17/.

Important.

Remember to reset your laptop to the original IP and Proxy settings. Otherwise connection to the LAN or the Internet communication might not work.

Resetting the Struers LAN Module

The Struers LAN Module can be set back to the default IP address (192.168.0.1) from the Configuration Menu on the dosing unit.

With the MAIN MENU displayed.



The Struers LAN Module can then be configured again with a new IP address following the procedure described above.

2. Installing the MethodPro Software on the PC

Requirements

Initial Steps

The Struers LAN Module software requires Windows NT, Windows 2000 or Windows XP and will probably run under any newer version of the Windows software.

It does not run properly under Windows 95, Windows 98 and Windows ME.

Installation of the software also requires administrative rights on the PC.

The CD contains both the MethodPro software along with Open Source versions of InterBase Server and InterBase Client.

- Turn on the PC.
- Exit any open programs, including those that run automatically at start-up (such as Microsoft Office) and virus-scanning software.
- Insert the Struers CD-ROM into the CD-ROM drive. The installation program on the CD starts automatically. If this is not the case start Windows Explorer select the CD-Rom drive and double click the file Setup.exe.

Select the language you prefer:



• Check the correct language and click on **Install**.

From the following screen select which programs are to be installed.

💋 MethodSoftware Install Program: Installation Options 🛛 🛛 🔀							
This will install MethodPro or	n your computer						
Select the type of install:	Typical 🗨						
Or, select the optional components you wish to install:	 Interbase 						
Space required: 12.4MB							
Cancel Nullsoft Install Sy	stem v2.0a0 < Back Next >						

If the program is running on a network, the InterBase Server software must be installed on the network, or on a PC that is accessible at all times.

- For this installation:
 - either select Server, which will only install the InterBase Server software,
 - or select **Typical**, which will install the InterBase Server software and the MethodPro software.

On the following workstations **Client** can then be selected, which will install the InterBase Client software and the MethodPro software.

After selecting the appropriate installation type, press Install to continue.

🏉 MethodSoftware Install Program: Installation Directory	
Please select a location to install MethodPro	
Select the directory to install MethodPro in:	
C:\Struers\MethodPro	Browse
Space required: 12.4MB	
Space available: 32.5GB	
Cancel Nullsoft Install System v2.0a0 < Back	Install

Select the directory where the MethodPro software is to be installed and press Install again.

Important!					
With Windows Vista and Windows 7 there is limited access to files when					
installed in C:\Program Files\Struers\MethodPro. Therefore another					
destination, e.g.C:\Struers\MethodPro must be selected. Otherwise					
MethodPro will not operate correctly.					

After all the necessary MethodPro files have been installed, InterBase installation is then carried out.

■ Click **Next** to continue.



After reading the Important installation information click Next to continue.

LCOME TO	INTERBASE 6	. Open		
				_
nstallati	on notes and	issues for	InterBase	6
or Window	s NT, Windows	s 95/98, ar	nd Windows 20	000
or Window	rs NT, Window:	s 95/98, ar	nd Windows 20	000
or Window	INTERPACE 6	3 95/98, aı	nd Windows 20	000
or Window	s NT, Windows	s 95/98, ar	nd Windows 20	000

■ Read the Software License Agreement and click **Yes** to continue.



Select the files to install and the **Destination** where the files are to be installed, then click **Install** to continue.

InterBase component select	Select the components you wish to install. Select the components you wish to install. InterBase Server Command-line tools Graphical tool Software development support Example programs Description
B 6	Destination C:\Borland\InterBase Browse Available: 34112660 K Required: 9930 K < <u>Back</u> Install Cancel

Important!

With Windows Vista and Windows 7 there is limited access to files when installed in *C:\Program Files\Borland\InterBase*. Therefore another destination e.g. *C:\Borland\InterBase* must be selected. Otherwise MethodPro will not operate correctly.

The InterBase software is now installed, click Finish then Close to continue.



Installation of the software is now completed and the system has to be configured.

Configuring a Server or Standalone System (Typical installation) This procedure will include all you need (if you are in doubt as to which installation option to use, select this one).

After installing all the software on your system Click on **Start**: ■ Select **Programs**, then **InterBase** and click on **IBConsole**.



The following screen will appear:

IBConsole				
Console View Server Database Tools Windo	ows Help			
] 💕 💕 Yo Yo 🚮	х.			
□∰ InterBase Servers	Action	Description		
Local Server	Login	Login to the selected server Register a new InterBase Server		
	Register			
	Un-Register	Unregister an InterBase Server		
	Diagnose Connection	Diagnose a connection to a server		
	Properties	View Server properties		

Double click the **Local Server** icon in the left pane.



■ Click **Yes** to start the server.

Server Logir	? <u>x</u>	
Server: Lo	ical Server	
<u>U</u> ser Name:	SYSDBA	
Password:	хххижихия	
	Login <u>C</u> ancel	

- When asked for a User Name enter SYSDBA; and "masterkey" as Password, then click Login
- Expand Local Server by clicking the + sign in front, then select Users by clicking the Users icon in the left pane.



Right-click on the SYSDBA icon in the right pane, and select Add User.



 Create a new user by entering "STRUERS" as User Name and "struers" (no capitals) as Password.

Diser manie.	STRUERS
Password:	******
- C <u>o</u> nfirm Password:	жжжжа
Intional Information	r
Eirst Name:	
Middle Name:	

- Confirm the password.
- Click on Apply and then on Close.

"STRUERS" can now be seen as a user.



Exit IBConsole.

- Press Ctrl. Alt. Del and start the Windows Task Manager.
- Select the tab Services and click the Services button at the lower right hand corner.

Windows Task Manager I Undows Task Manager								
Applications Processes Services Performance Networking Users								
Name	PID	Description	Status	Group				
AEADIFilters Ael ookupSyc	1944	Andrea ADI Filters Service Application Experience	Running Stopped	N/A =				
AgereModemAudio	1972	Agere Modem Call Progress Audio	Running	N/A				
AppIDSvc		Application Layer GateWay Service Application Identity	Stopped	LocalServic.				
Appinfo AppMgmt	976	Application Information Application Management	Running Stopped	netsvcs netsvcs				
aspnet_state atashost	1992	ASP.NET State Service Stopped N/A WebEx Service Host for Support Center Running N/A						
AudioEndpointBuilder Audiosry	936 880	Windows Audio Endpoint Builder Windows Audio	Running	LocalSyste.				
AxInstSV		ActiveX Installer (AxInstSV)	Stopped	AxInstSVG.				
BFE	1780	Base Filtering Engine	Running	LocalServic.				
BITS Browser	976	Background Intelligent Transfer Service Computer Browser	Stopped Running	netsvcs netsvcs				
bthserv CertPropSvc	976	Bluetooth Support Service Certificate Propagation	Stopped Running	bthsvcs netsvcs v				
•				•				
				Services				
Processes: 70 CPU Usage:)%	Physical Memory: 36%						

Click Yes when the UAC pop-up appears and the Services screen is displayed.

Services (Local)						
InterBase Server		Name	Description	Status	Startup Type	Log On As
		🛸 IKE and AuthIP IPs	The IKEEXT	Started	Automatic	Local Syste
Stop the service		🔍 Intel(R) Matrix Sto		Started	Automatic	Local Syste
Restart the service		🔍 Intel(R) PROSet/W	Manages th	Started	Automatic	Local Syste
		🔍 Intel(R) PROSet/W	Provides re	Started	Automatic	Local Syste
		🔍 Interactive Service	Enables use		Manual	Local Syste
		🔍 InterBase Guardian		Started	Automatic	Local Syste
		🎎 InterBase Server		Started	Manual	Local Syste
		🔍 Internet Connecti	Provides ne		Disabled	Local Syste
		🔍 IP Helper	Provides tu	Started	Automatic	Local Syste
		IPsec Policy Agent	Internet Pro	Started	Manual	Network S
		🔍 KtmRm for Distrib	Coordinates		Manual	Network S
		🔍 Link-Layer Topolo	Creates a N		Manual	Local Service
		🔍 Machine Debug	Supports Io	Started	Automatic	Local Syste
		G Media Center Exte	Allows Med		Disabled	Local Service
		🔍 Microsoft .NET Fr	Microsoft		Disabled	Local Syste
		G Microsoft .NET Fr	Microsoft		Automatic (D	Local Syste
		🔍 Microsoft iSCSI Ini	Manages In	Started	Automatic	Local Syste
		🔍 Microsoft Office D	Run portion		Manual	Local Syste
		Microsoft SharePo			Manual	Local Service
		🔍 Microsoft Softwar	Manages so		Manual	Local Syste
		*				
5. 11 (5. 1.1	/	· [

InterB	ase S	erver Pro	perties (Lo	cal Com	puter)			×	J
Ger	neral	Log On	Recovery	Depende	encies				
Se	ervice	name:	InterBaseS	erver					
Di	splay r	name:	InterBase \$	Server					
De	escripti	ion:						*	
Pa C:	ath to e \Borlar	executable nd\InterB	e: ase\bin\ibse	erver.exe					
St	artup t	yp <u>e</u> :	Manual					-	
He	elp me	configure	Automatic Automatic Manual	(Delayed	Start)				
Se	ervice	status:	Disabled Started						
	<u>S</u> t	art	Stop		<u>P</u> a	use	<u>R</u> esume	e	
Yo	ou can om here	specify tł e.	ne start para	meters tha	at apply	when you	u start the sen	vice	
St	art par	a <u>m</u> eters:							
				ОК		Canc	el <u>A</u>	pply	

■ Select InterBase Server and press Enter.

■ Select Automatic and click OK.

You can now close both the Services window and the Task Manager.



Starting the MethodPro Software

Click on Start, select Programs, then STRUERS followed by MethodPro and click on MethodPro:

🖬 Struers	•	🛅 Scentis	H	
Accessories	×	🛗 MethodPro	١	🥑 Help
🛅 Microsoft	•	🛅 TegraPro	۲	🦪 MethodPro

When MethodPro is started for the very first time, the database has to be updated.

Database updatin	ig	
v2.0 The database n	• nust be up	v3 dated. Please
X Cancel		Update

Click Update to start the process. When the update is completed the following screen is displayed:



Before you can start working with the MethodPro software one last step of configuration might be necessary.

Configuring the Database

Server Configuration

When running the software on several PC's the database is located together with the InterBase Server version or at a location know to the InterBase Server software that was defined during the installation.

■ Click on **File** and select **Database**.

Struers		
File	Edit View Help	
Ec	lit User Defined Cor	isumables
C	ppy User Defined Co	onsumables to DB
C	ppy User Defined Co	onsumables from DB
In	port consumables	•
In	port MG Methods	σ.
In	port method	
E>	port method	
Pr	int method	
Pr	int setup	
Tr	ansmit consumables	; table
M	onitor	
Su	Immary	
Pr	operties	Alt+Enter
Da	atabase	
A	cess Level	
Pa	asswords	
Se	ttings	

Select TCP/IP and set the Server name to the IP address of the computer where the database is located.

Database connection
Network protocol O No network - local database O TCP/IP
O NetBEUI O SPX
Server name 10.0.10.99 Database C:\Struers\MethodPro\MethodPro.gdb Browse
<u>©</u> ancel <u>O</u> pen database

Specify the location of the Database file MethodPro.gdb and click on Open database.

Stand-alone Configuration

When the MethodPro software is installed on a single PC only, this is called a stand-alone configuration.

■ Check **TCP/IP**, set the **Server name** to 127.0.0.1 and define the correct path for the location of the MethodPro.gdb database file.

Database connection
Network protocol
TCP/IP
C NetBEUI
O SPX
Server name 127.0.0.1
Database C:\Struers\MethodPro\MethodPro.gdb Browse
<u>Cancel</u>

Click on **Open database**.

Operating the MethodPro Software

The Database shown already contains a group with the 10 Metalog Guide methods. As no machines are connected yet the equipment icon cannot be expanded.

To set up connection to the dosing unit (TegraDoser-5/ TargetDoser) that is connected to your LAN:

- Click on **Equipment**.
- Right click in the right pane of the screen, or press the lns key on the keyboard or Click Edit and select Add machine.

💐 Struers	
File Edit View Help	
// Struers	
Equipment Database	🔄 Equipment
	Add machine Ins

In the window Machine Properties.

■ Type the IP address of your dosing unit and click **OK**.

<u>></u>
Cancel

A **New Machine** icon appears where a name can be entered to identify your system.

If the connection is not working properly an exclamation mark will be displayed on the icon.



Check that the wiring is correct and that all the IP addresses, subnet masks and default gateways are correct.



 Click View and select Refresh or press F5 after selecting machine.

All the other functions are explained in an online help file. Simply press **F1** or select **Help** followed by **Help topics** and get a thorough explanation on how to use the MethodPro software.



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