

Automation Solutions

# Handbook

# LCON – Programmable Converters

Installation of PACTware, DTM-Driver and Driver for the USB Service Cable

Version 1.12



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# **1** General Information

# 1.1 Symbol legend

The manual contains safety guidelines by a signal word in combination with a certain color. The combination stands for the respective warning stage. The references exhibit possible dangers and give references to avoidance.



# 1.2 Copyright

These user manual are intended for the user and the user's personnel only. It is not allowed to disclose, to copy, to reproduce, or to circulate the contents of this manual, either in full or in part, as far as the publisher makes explicit concessions. Non-compliance may lead to prosecution under criminal law.

# 1.3 Warranty and Liability

We have verified the contents of this manual regarding to the conformity of the described hardware and software. Nevertheless divergence may be possible and we give no guarantee for the complete agreement. This information in this manual will be verified periodically and corrections will be contained in the next issue. We would appreciate any kind of suggestion and contributions on your part.

All warranty and liability claims shall be excluded by Friedrich Lütze GmbH & Co KG in case of damages caused by missing or insufficient knowledge of the operating instructions. Therefore the user company is recommended to have a confirmation in writing about the instruction of the personnel. Modifications or functional alternations on the LOCC-Box are not allowed due to safety reasons. Any modification on the LOCC-Box modules not explicitly authorized by the manufacturer will result in loss of any liability claims to Friedrich Lütze GmbH & Co KG. The same applies if non authorized parts or

# 1.4 Safety Instructions

equipment are used.

#### 1.4.1 Contents of the Handbook

The handbook is before all working, those at or with the equipment to be implemented read and accordingly kept. This is valid for all persons with the coming into contact comes. Personnel and specialists, in particular electrical specialists also trained, who already worked with similar devices, should have read and understand the handbook.

#### 1.4.2 Intended Use

The usage as agreed upon includes the operation in accordance with the operating instructions. The LOCC-Box System is allowed to be used according to the described applications within the technical documents only and in combination with the recommended authorized foreign devices and components only.

#### 1.4.3 Qualification of the Personnel

Only highly trained personnel may carry out the following work on the converter modules:

- Installation
- Commissioning
- Operating
- Maintenance

The suitably qualified operating personnel have to be instructed and trained before undertaking any work on the converter modules.

#### 1.4.4 Maintenance

The LOCC-Box System is maintenance free. Therefore for continuous operation no inspection or maintenance intervals are necessary.

#### 1.4.5 Decommissioning and Disposal

In case of decommissioning and disposal of the LOCC-BOX products the user has to observe the valid environmental guidelines of the respective country for user's location.



# 2 LCON

The document contains instructions for installing the application PACTware, HART-DTM-driver, Lütze DTM-driver and the installation of the USB service cable.

The software can be downloaded for free on the Lütze website: www.luetze.de

Following options are offered as zip files:

-	Analog / Analog Converter	750320 / 751320	LCON AA DFDT 806210
-	Temperature / Analog Converter	750340 / 751340	LCON TA DFDT 806210
-	Analog – Limit Switch	750360 / 751360	LCON ALS FDT 806210
-	Temperature – Limit Switch	750370 / 751370	LCON TLS FDT 806210
-	USB Service Cable	750894	LCON ZB USB

## 2.1 Operating System

PACTware and all DTM drivers are compatible with following operating systems:

- Windows 2000<sup>1)</sup>
- Windows XP<sup>1)</sup>, 32-Bit
- ➢ Vista <sup>1)</sup>, 32-Bit
- Windows 7<sup>1)</sup>, 32-Bit

### 2.2 Parameterization

The LCON converter 750320/751320/750340 and 751340 use for adjustment from standard ranges laterally DIP-Switches. For a parameterization via PACTware all switches must be switch in position "OFF".

#### NOTICE

A parameterization via software is also possible when the DIP-Switches are in position "ON". In this case the software adjustments have a higher priority. After power supply reset the converter read the adjustments from the DIP-Switches – not from the software! This can lead to unintentional malfunction!



# 3 Installation - Software

#### NOTICE

Shut down all applications before starting the installation!

## 3.1 Installation - PACTware and HART-DTM Driver

Unzip the files (PACTware xxx.zip) in any folder (for example: C:\LCON). Start the installation by double clicking Setup.exe.

Follow the steps in the installation assistant. The folder can be deleted after a successful installation.

🚱 User Account Control		Confi	rr
Do you want to allo unknown publishe	ow the following program from a r to make changes to this comput	n er?	•
Program name: setup Publisher: <b>Unkn</b> File origin: Netw	.exe øwn ork drive		
Show details	Yes No		
	Change when these notifications a	<u>ippear</u>	
Choose Setup Language		×	
Select the language	ge for this installation from the choices be	elow.	
English (United Stat	es) 🔻		
01	Cancel		
InstallShield Wizard			
	Preparing to Install PACT ware 4.0 Setup is preparing the Ins which will guide you through the program Please wait.	tallShield Wizard, setup process.	
	Checking Operating System Version		
		Cancel	

Confirm the safety alert message by clicking 'Yes".



PACTWARE 4.0 - Instalishield Wizard			
License Agreement		V	
Please read the following license agreemen	t carefully.	1	
Software license agreement for Lutze softw	vare		
1. License:			=
The software is distributed as Freeware. Yo computers for as long as you like. The software is NOT Public Domain softwa software, but we retain ownership and cop, entirety. You may use and/or distribute the software	ou may use this softw are. We allow the free yright of the software e only subject to the f	are on any num e distribution of t and its source ollowing conditio	ber of he code in its ons:
You may not modify the program	or documentation file	s in any way	Ψ.
I accept the terms of the license agreement	nent		Print
C I do not accept the terms of the license	agreement		
InstallShield			
	< Back	Next >	Cancel
PACTware 4.0 - InstallShield Wizard			
Customer Information			Aller /
Please enter your information.			A Contractor
User Name:			
User Name: Friedrich Lütze GmbH & Co. KG			
User Name: Friedrich Lütze GmbH & Co. KG Company Name:			
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG			
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG Install this application for:			
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG Install this application for: C Anumpe who uses	this computer (all us	arel	
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG Install this application for: Anyone who uses	this computer (all use	915)	
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG Install this application for: Anyone who uses	this computer (all use	ers)	
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG Install this application for: Anyone who uses	this computer (all use	95)	
User Name: Friedrich Lütze GmbH & Co. KG Company Name: Friedrich Lütze GmbH & Co. KG Install this application for: Anyone who uses InstallShield	this computer (all use	яs)	





1

PACTware 4.0 - InstallShield Wizard					
Start Copying Files					
Review settings before copyin	g files.				
The PACTware installation may take a few minutes.					
Current Settings:					
Eustomer Information: Friedrich Lütze GmbH 8 Friedrich Lütze GmbH 8	к Со. КС со. КС				
Setup type: Complete	=				
Features: MDAC 2.8					
ICS Generic HART FD	T 1.2 DTM (H4.0.3)				
1.4	4				
InstallShield					
	< Back Next > Cancel				
ICS Generic HART Release 4 FD	T 1.2 DTM - InstallShield Wizard				
EVT.	Welcome to the InstallShield Wizard for ICS				
	Generic HART Release 4 FDT 1.2 DTM				
	The InstallShield® Wizard will install IUS Generic HART Release 4 FDT 1.2 DTM on your computer. To continue,				
	click Next.				
-					
And Personne of the local division of the lo					
	< Back Next > Cancel				
ICS Generic HART Release 4 FD	T 1.2 DTM - InstallShield Wizard				
License Agreement					
Please read the following licen	se agreement carefully.				
Press the PAGE DOWN key to	o see the rest of the agreement.				
Generic HART Device Type Manager Release 4 Copyright © 2007-2010 by ICS GmbH,					
for Frame Applications according to Field Device Tool Specification 1.2.					
All rights reserved.					
The following licensing terms	are in effect for the use of this product				
1. This license is either valid fi	or one PC (personal license) or many PCs (site license).				
I he use of this product is only	permitted to enduser. By accepting this license agreement,				
will close. To install ICS Gene agreement.	rie preceuring License Agreement (* 11 you select No, ithe setup ric HART Release 4 FDT 1.2 DTM, you must accept this				
InstallShield	InstallShield				
	K Back Yes No				

By clicking "Next" the installation starts. Subsequent to the PACTware installation the installation assistant for the HART-DTM driver will start.









PACTware 4.0 - InstallShield Wizard				
	InstallShield Wizard Complete			
	Setup has finished installing PACT ware 4.0 on your computer.			
	< Back <b>Finish</b> Cancel			



# 3.2 Installation Lütze-DTM Driver

Unzip the files (LCON\_HART\_DTM\_xxx.zip). in any folder (for example: C:\LCON). Start the installation by double clicking Setup.exe.

Follow the steps in the installation assistant. The folder can be deleted after a successful installation.

🚱 User Account Control	×	Confirm t	he safety ale	ert message by clicking
Do you want to allow unknown publisher	v the following program from an to make changes to this computer?	"Yes".		
Program name: Luetze_ Publisher: <b>Unkno</b> v File origin: Networ	HART_DTM_1.00.0900_Setup.exe wn k drive			
Show details	Yes No			
	Change when these notifications appear			
Choose Setup Language	<b>—</b>			
Select the language	for this installation from the choices below.			
English (United States	s) •			
ОК	Cancel			
InstallShield Wizard				
	Preparing to Install Lütze HART DTM Setup is preparing the Instal Wizard, which will guide you through the prop process. Please wait.	IShield gram setup		
	Checking Operating System Version			
		Cancel		

🔡 Luetze DTM - InstallShield V	Vizard					
	Welcome to the InstallShield Wizard for Luetze DTM The InstallShield(R) Wizard will install Luetze DTM, version 1.00.0900 on your computer. To continue, click Next. WARNING: This program is protected by copyright law and international treaties.					
	< Back Next > Cancel					
🔡 Luetze DTM - InstallShield V	Vizard 💌					
License Agreement	4					
Please read the following licer	nse agreement carefully.					
Software license agr 1. License: The software is distributed number of computers for as Domain software. We allow ownership and copyright of	Software license agreement for Lütze software 1. License: The software is distributed as Freeware. You may use this software on any number of computers for as long as you like. The software is NOT Public Domain software. We allow the free distribution of the software, but we retain					
You may use and/or distrib conditions:	ute the software only subject to the following					
<ul> <li>I accept the terms in the licen:</li> <li>I do not accept the terms in the</li> </ul>	se agreement Print Print					
InstallShield						
	< Back Next > Cancel					
뚽 Luetze DTM - InstallShield W	Vizard					
Destination Folder						
Click Next to install to this fold	ler, or click Change to install to a different folder.					
Install Luetze DTM t C:\Program Files (xi	:o: 86)\Luetze Software\ Change					





The USB service cable is required for parameterizing the converter via FDT/DTM. Choose "Launch Luetze USB Setup" for installing the driver of the USB service cable. Confirm the setting by clicking "Finish".

Notice	<b>•••••••••••••••••••••••••••••••••••••</b>
i	These drivers are already current and up to date, to remove these go to Add/Remove Programs in the Control Panel
	ОК

This message appears if the newest version of the driver is already installed.

# 3.3 Additional Installation of the USB Driver

The USB driver can be installed additionally. It is required if there is an update available. Unzip the files (LCON\_ZB\_USB\_Driver\_xxx.zip) in any folder (for example: C:\LCON-USB). Start the installation by double clicking LCON\_ZB\_USB\_Installer.exe.

Follow the steps in the installation assistant. The folder can be deleted after a successful installation.



Confirm the safety alert message by clicking "Yes".





This message appears if the newest version of the driver is already installed.

# 4 Connection the LCON to the PC via the USB Cable

After installing the applications and drivers, start parameterization the converter. Connect the LCON converter to the PC via the USB service cable (750894). The Micro-USB socket is under the front plate.



If connecting the converter the first time to your computer, following appears: "Found New Hardware" – LCON ZB USB.





The Hardware Assistant to seek new hardware starts. Choose "Nein, diesmal nicht". Confirm the setting by clicking "Weiter".





Assistent für das Suchen neuer Hardware				
	Fertigstellen des Assistenten			
	Die Software für die folgende Hardware wurde installiert:			
Las	CON ZB USB			
	Klicken Sie auf "Fertig stellen", um den Vorgang abzuschließen.			
	< Zurück Fertig stellen Abbrechen			

NOTICE

- If changing the USB port on the computer the hardware assistant may start again.
- After connecting the USB cable and installing the driver a green LED will light up on the USB connector.
- The installation of the connected service cable can be controlled in the Device Manager under "Ports (COM & LPT):

#### Link: Start / Control Panel / Hardware and Sound / Device Manager



Choose "Software automatisch installieren (empfohlen). Click "Weiter".



# 5 Working with PACTware

# 5.1 Starting PACTware

Start the application by clicking the shortcut on the desktop or start it under the link: Start / All Programs / PACtware4.0 / PACTware4.0

# 5.2 Setting up a new Project

New projects can be setup in four different ways.

### 5.2.1 PACTware Wizard

After the installation the wizard is enabled automatically. It displays all installed DTMs.

It is possible to unable the Wizard. Click Extras / Options / program startup  $\rightarrow$  "show wizard".

By clicking on "Luetze LCON" all converter of this group are transferred to the new project. The required "HART-Modem" is also transferred.

#### 5.2.2 Device Catalogue

Start PACTware and shut down the Wizard.

Choose File / New or click on the symbol "Create new project" in the toolbar.

Press F3 on the keyboard or click View / Device-catalog to open the device catalog. The catalog displays all installed DTMs. By clicking "Update device catalog" the newest installed DTMs are added.

The device "HART Communication" has to be insert first. The device is responsible for the connection between PC and the DTM. Click "Add". The device is insert under the HOST PC. Choose any Lütze Device and click "Add".

🖃 📑 All Devices	All Devices				
🗉 🎡 CodeWrights GmbH	Device	Protocol	Vendor	Group	Device Version
ICS GmbH	Ceneric HART DTM	HART	ICS GmbH	DTM specific	4.0.3 / 2010-02-19
⊞	HART Communication	HART	CodeWrights GmbH	FDT	1.0.39/2010-04-12
	LCON AA	HART-Bus	Lütze	DTM specific	1.0.0 / 2010-04-01
	LCON ALS	HART-Bus	Lütze	DTM specific	1.0.0 / 2010-04-01
	LCON TA	HART-Bus	Lütze	DTM specific	1.0.0 / 2010-04-01
	LCON TLS	HART-Bus	Lütze	DTM specific	1.0.0 / 2010-04-01
Vendor Group Type Protocol					
		1 la da	a da far adalar	1 1.6	1

## 5.2.3 Adding Device

Start PACTware and set up a new project, please read 5.2.2. Choose *Device / Add Device* to see the devices which have to be installed next. In the first step the device "HART Communication" appears. Choose the device and confirm by clicking ok. In the second step all other devices are listed. Choose the according device and confirm by clicking ok.

### 5.2.4 By starting via a DTM link

To set up a new project with all Lütze-DTMs. Choose Start / All Programs / Luetze Software / Luetze DTMs

PACTware		×
Vorlagen		
HART Modem Luetze LCON		
Wizards		
Vizard beim Programmstart anzeigen	Sch	nließen



## 5.3 Parameterization

#### 5.3.1 HART-Communication

After setting up a new project the "HART Communication" has to be parameterized. In the column projects click with the right mouse button on the HART communication symbol. Choose "Parameter". All current settings are displayed. Change the settings as shown in the picture and confirm the new settings by clicking "Apply" and "Ok".

Communication interface	HART multiplexer	•			
Serial Interface	COM8 (LCON ZB USB)				
	Baudrate	9600 💌			
	RTS Control	Toggle 💌			
HART protocol	Master	Primary Master 💌			
	Preamble	5 💌			
	Number of communication retries	3 💌			
Address scan	Start address	0 👻			
	End address	15 💌			



If the connected service "LCON ZB USB" cable cannot be chosen in the drop down menu "Serial Interface" a new installation of the driver has to be done. Please see chapter 3.3. In the windows device manager under "Ports (COM & LPT)" the service cable is listed.

#### 5.3.2 Offline-/ Online Parameterization

The connected converter can be parameterized in an offline or online mode. The online mode is only possible if a connection between the converter and the computer via the HART communication is existing. Click with the right mouse button on the converter. Choose "Connect".

It is possible to mark the according converter and built up a connection over the symbol-bar. Connected devices are displayed bold.

In the offline mode it is possible to do the parameterization without connecting the converter.

The new data will be saved in the database. If a connection between the computer and converter is existing the data can be transferred.

During the start of the onlineparameterization the current settings are loaded from the device in the software.



By clicking the button  $\square$ , the database can be compared to the data of the device. Differences are displayed by an unequal sign. ( $\neq$ )

	Online	Offline
Parameterization	only possible when connected	ever possible
"Apply"	Data will be download to device	Data will be download to database
Download	By clicking the button "Apply" or the	Not possible, only store data in
Data to device	symbol "Transmit data to device"	database
Upload	By clicking the symbol "Read data	Not possible, only load data from
Data from device	from device"	database

#### 5.3.2.1 Differences Online- / Offline Parameterization

#### 5.3.2.2 Symbols



# 5.4 Displaying the Measuring Values

At an existing connection it is possible to display measuring values with PACTware.

Click with the right mouse button on the converter. Choose "Measure Values".

Measuring Values are: - Input signals

- Output signals
- Temperature values
- Switching Status Relay 1 / 2



#### 5.4.1 Symbols





# 5.5 User Administration

With PACTware an user administration is possible. Five different password protected access authorizations can be defined:

- Observer
- Operator
- Maintenance Staff
- Planning Engineer
- Administrator

	Files			Connection		Parameter		Device	
	Open	saving	saving under	connected	dis- connected	offline	online	ad- ding	remo- ving
Observer	✓			✓	✓				
Operator	$\checkmark$			√	√				
Maintenance Staff	~		$\checkmark$	$\checkmark$	~	✓	~		
Planning Engineer	~	~	~	~	✓	~	~	~	~
Administrator	$\checkmark$	✓	~	√	✓	~	✓	$\checkmark$	$\checkmark$

	Device Catalogue			Data		Database		Measuring
	update	info	adding	read from device	Write to device	load	write	value
Observer		✓						√
Operator		✓		✓				$\checkmark$
Maintenance Staff		~		~	$\checkmark$	~	✓	$\checkmark$
Planning Engineer	~	~	✓	~	✓	~	~	~
Administrator	✓	✓	$\checkmark$	✓	√	✓	✓	✓



# 6 Trouble-shooting

# 6.1 "Service Cable "LCON\_ZB\_USB" is not being recognized"

- Only "PACTware\_x.x.x." was installed!
  - ➔ Install "LCON\_HART-DTM\_x.x"
- The installation was started from the zip files!
  - ➔ Unzip the files and restart the setup
- If using Windows 7 (64Bit) install additionally the driver from Silicon Labs.
   For a request send an e-mail to <u>automation@luetze.de</u>.

#### NOTICE

The successful installation can be controlled in the device manager under "Ports (COM & LPT)" if the service cable is connected.

Link: Start / Control Panel / Hardware and Sound / Device Manager



## 6.2 "DTM- driver are not recognized in PACTware"

- Press F3 to access the device catalog. Choose "Update device catalog". The project must be shut down.
- "LCON\_HART-DTM\_x.x" is not installed!!! read chapter 3.2
  - ➔ Unzip the ZIP-Files and restart the setup
- 1) Windows, Windows 2000, Windows XP, und Windows Vista and Windows7 are registered trademarks of the Microsoft Corporation.

