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Manual DP3 Report

1. Conditions

- ecom-DP3
- PC with card reader and operation system Win2000 and higher
- SD card or MM card from ecom
- Card size: min. 32 MB max. 2 GB
- Card formatted on 16 bit FAT

2. Install software

- Install software from product USB stick
- Download software from www.ecom.de and install.

Please notice that:

- depending on the operating system you have to be logged on as an administrator
- depending on the operating system you have to unpack the installation files (zip program) before installation

3. Start software

Start by calling up "Start" / "Program >" / "DP3 Report"

Com DP3 Report 1.075 File Settings Hilfe				-	×
	stomer 😂	🐖 Measurements t	o customer		
Kundennummer	Name	Straße	PLZ / Ort	Telefon	^
MT1	Name 1	Strasse 1	10000 Ort 1	02371-9455	
MT5	Name 10	Strasse 10	10000 Ort 10	02371-9455	
MT6	Name 11	Strasse 11	10000 Ort 11	02371-9455	
MT7	Name 12	Strasse 12	10000 Ort 12	02371-9455	
MT8	Name 13	Strasse 13	10000 Ort 13	02371-9455	
MT9	Name 14	Strasse 14	10000 Ort 14	02371-9455	
MT10	Name 2	Strasse 2	10000 Ort 2	02371-9455	
MT11	Name 3	Strasse 3	10000 Ort 3	02371-9455	
MT12	Name 4	Strasse 4	10000 Ort 4	02371-9455	
MT13	Name 5	Strasse 5	10000 Ort 5	02371-9455	
MT14	Name 6	Strasse 6	10000 Ort 6	02371-9455	
MT2	Name 7	Strasse 7	10000 Ort 7	02371-9455	
MT3	Name 8	Strasse 8	10000 Ort 8	02371-9455	
<	🔍 Search	So New 🗑 De	lete	customers to card	>
Customer de	tails Customer overview	,			

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4. Parameters

Select "Settings" / "Program"

Select card	Adjustments	×
reader drive	Programme Printout company data Database	
Protocol display on/off	Card drive for data exchange with DP3 : D: (FAT, 938 MB free.)	
Take over settings	Apply changes	
Enter company data for forms Adjustments Programme Printout	company data Database	Select company logo for forms
Company name : ecor	ECOM®	(160 x 50 Pixel)
Address : Am 0	irossen Teich 2	
ZIP City : 5864	0 Iserlohn Select logo file	
E-Mail : info@	õecom.de 🔽 ecom Logo	Take over
Phone : Tele	on 02371-9455	settings
Fax: Tele	ax 02371-40305	

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6. Customer selection

- Select tab "Customer" / "Customer overwiew"
- Select desired customer with left mouse button
- To select multiple customers press <CTRL> and hold button (select all customers with <CTRL> <A>)
- To store selected customers to SD or MMC press "Store selected customers to card"



	PD2 Report 1 075				
	UP3 Report 1.075				×
	Datei Einstellungen	Hilfe			
		😂 Kunden	🖲 Messungen	zum Kunden	
	, Kundennummer	Name	Straße	PLZ/Ort	Telefon
	MT1	Name 1	Strasse 1	10000 Ort 1	02371-9455
	MT5	Name 10	Strasse 10	10000 Ort 10	02371-9455
	MT6	Name 11	Strasse 11	10000 Ort 11	02371-9455
	MT7	Name 12	Strasse 12	10000 Ort 12	02371-9455
	MT8	Name 13	Strasse 13	10000 Ort 13	02371-9455
	MT9	Name 14	Strasse 14	10000 Ort 14	02371-9455
	MT10	Name 2	Strasse 2	10000 Ort 2	02371-9455
	MT11	Name 3	Strasse 3	10000 Ort 3	02371-9455
	MT12	Name 4	Strasse 4	10000 Ort 4	02371-9455
	MT13	Name 5	Strasse 5	10000 Ort 5	02371-9455
	MT14	Name 6	Strasse 6	10000 Ort 6	02371-9455
	MT2	Name 7	Strasse 7	10000 Ort 7	02371-9455
	MT3	Name 8	Strasse 8	10000 Ort 8	02371-9455
					~
	<				>
		Suchen	🗞 Neu 👘 I	öschen 📄 📓 Markierte Kund	an auf Karte speichern
Enter search term	Details zum K	unden Kundenübersic	cht		
				Selected	loustomers
	Search custo	mer Create cust	omer Delete se		
		iici Oreale Cusi		WIII be w	ritten to SD
		data	custom	ners or	MMC

7. Take over measurements of SD or MMC

- Select tab "Measurements to customer" / "All measurements to customer"
- Insert SD or MMC in the card drive of the PC
- Press Button "Load from card" to take over the measurements
- Measurements are automatically mapped to the stored customer numbers (new customer numbers will be created newly)

	File Settings Hil				
		e 🔩 Cust	omer	🖲 Measurements to customer	
	Meas. rows availa	ble to this cus	tomer :		Forms to measurement row :
	Datum Uhr.	eit Mess	ungstyp	Messdauer (Minute ^	Load-And-Tightness TestTRGI2018
	06.01.00 02:0	1:07 Belas	stungs- und Dichtheitsprüfung (Bela	istung) 10	
- .	06.01.00 02:1	9:25 Belas	stungs- und Dichtheitsprüfung (Dich	theit) 9	
Take measurements	06.01.00 02:	4:59 Gebra	auchsfähigkeitprüfung (Leckmenge	299	
from SD or MMC	Shov	form nt details	Load from card		
	wiedsurenn	ne acculto	An measurements to custome		

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8. Details of the measuring

- · Select tab "Measurements to customer" / "Measurement ddetails"
- Press button "Change" to create or change a memo field to the measurement
- · Make entries/changes and save with button "Save"

^{coorr} DP3 Report 1.075 File Settings Hilfe						X
-	omer	e M	easurements to cu	stomer		
Measurement type : Bela	astungs- und Dichth	eitsprüfung (Belastung)		Memo to measurement :		
Start date :	06.01.00	Start temperature °C :	23.0			
Start time :	02:01:07	End temperature °C :	24.0			
Interval in seconds :	3	Unit :	hPa			
Pres. start :	1102.3	Number of decimal points :	1			
Pres. end :	1099.0	Air pressure in hPa :	1010			
Measurement dur. in minutes :	10	Reference pressure :				
Diff. pressure start end :	-3.3	Leak rate in I/h, standardize	d			
Stabilization time in minutes :	1	Leak rate in I/h, not standar	di			
		Instrument:	DP3/4711-1			
Change	Store	Quit	View m	easurement rov	 	
ate or modify me	emo to		view m	easurement		
mogeuro			data	/ graphic		
measure						

- Press button "View measurement row" to display the measurement history
- Press button "Data export" to store the data in Excel format (as xls or csv file)



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9. Fill out a form to the measurement

- Select tab "Measurements to customer" / "All measurements to customer"
- To fill out the form press button "Show form"

				Select form
	mm DB2 Papart 1075			
	File Settingen Lilfe			
	File Settings Fille	Se Customer	🗐 Measurements to customer	
	Meas. rows available	to this customer :		Forms to measurement row :
	Datum Uhrzeit	Messungstyp	Messdauer (Minute 🔨	Load-And-Tightness TestTRGI2018
	06.01.00 02:01:0	7 Belastungs- und Dichtheitsprüfung (Belastung)	10	
	06.01.00 02:19:2	5 Belastungs- und Dichtheitsprüfung (Dichtheit)	9	
	06.01.00 02:54:5	9 Gebrauchsfähigkeitprüfung (Leckmenge)	299	
Fill out a form				
	For Show for	m 🛐 Load from card		
	Measurement of	details All measurements to customer		

- Check boxes can be changed with the left mouse button
- Edit fields can be enabled with the left mouse button and then filled out
- If necessary save the current state of the form as default for all measurements of this type with "Save as default"



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- Take over the grafic of selected measurement (e.g. load test) with left mouse button
- If necessary select second measurement (e.g. tightness test) and take over the grafic with left mouse button
 Press "Create PDF" button to open the form as a PDF file
- (the PDF Reader installed on your PC is used if necessary save or print file)



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Protocol Load and Tightness Test Gas Pipe Line

Cu : Name :	ZIP/City: Phone:					
Street :	Others :					
Max. operating press	ure in mbar :					
Gas line checked	as total line in	partial sections				
Test medium	Air Nitrogen					
All lines are closed wi	ith metal stopples, caps, blanks or blind fla	anges.				
Gas installation <= 1	100 mbar (low pressure)					
1. Load check 1.1 Fittings	j 					
12 Test press	iominal pressure >= test pressure) ure 1 bar					
1.3 Test time 1	0 minutes					
1.4 🗌 Test pressu	ure not dropped during test time					
2. Tightness Test	installed	Line	Adaptation time	Min. test duration		
2.2 Test pressu	ure 150 mbar	< 100 l	10 min	10 min		
2.3 Test time a	cc. to table	>= 100 l < 200 l	30 min	20 min		
2.4 I est pressu	ure not dropped during test time iaht	>= 200 l	60 min	30 min		
Start press. :	Loa Test press	d Test sure / mbar				
End press. :						
Start temp. : End temp. :	Click to take over curre	ent measurement				
	Tightr	ness Test				
	Test press	sure / mbar				
Start press. :						
End press. :						
Start temp. :	temp. :					
End temp. :						
Measurement performe	ed with DP3/4711-1					
Place / Date :	Signature insp	pector Sig	gnature client			

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Test Protocol Usability of Gas Installations

Cu :	ZIP/City :
Name :	Phone :
Street :	Others :

Reason for control (tick appropriate)

	Recurring control	(rota acc. te	o DVGW	TRGI 2018)
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Re-commissioning of a plant temporarily shut down

A tightness test is compulsory for re-commissioning a decommissioned line system (TRGI points 5.7.1.2) !!

Checked pipe section (description acc. toTRGI) :

Evaluation of the gas installation (acc.to TRGI points 5.6.4.3.1)

Evaluation of externally recognizable stand :

Evaluation of components operatability :

Determination of leakage volume

Leakage volume determination by means of leakage meter with natural gas under operation pressure

The indicated leakage volume amounts : litre(s) per hour.

Overall assessment / Degree of Usability / Measures (tick)

Evaluation	Unlimitedly usable	Reduced usable	not usable
Leakage vol.	< 1 l/h	>= 1 I/h and < 5 I/h	>= 5 l/h
Necessary measure	Provided no additional defect is given and under consideration of BGR 500 chap. 2.31, gas can immediately be conveyed again thru the line.	The pipe must be sealed or changed, proof of tightness according to TRGI point 5.6.4.2 is to be produced within 4 weeks after the present check.	Do not recommission this line ! No gas in this line ! New pipe installation is compulsory !

Leakage Volume Measurement

Leakage volume l/h

Start temp. :

End temp. :

Click to take over current measurement

Defect :

Measurement performed by ecom DP3/4711-1

Place / Date :

Signature inspector

Signature client

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Protocol Load and Tightness Test Liquid Gas Pipe Line

Cu :	ZIP/City :
Name :	Phone :
Street :	Others :
Max. operating press	ure in bar :
Gas line checked	as total line in partial sections
Test Medium	Air Nitrogen
1. Pressure Test	
1.1 Fittings	
dismountee	t de la constante de
mounted (r	nominal pressure >= test pressure)
1.2 Test press	ure bar (1.1 times of operation pressure / min. 1 bar)
1.3 Test time	minutes (min. 10 minutes / by partially earth-embedded lines 30 minutes)
1.4 lest press	ure not dropped during test time
2. Tightness Check	
2.1 Fittings are	installed
2.2 C Test press	ure 150 mbar
2.3 Test time 1	0 minutes
2.4 I est press	ure not dropped during test time
	.ignt
	Load Test
	Test pressure / bar
Start press. :	
End press. :	
	Click to take over current measurement
Start temp. :	
End temp :	
	Tightness Test
	lest pressure / mbar
Start press. :	
End press. :	
	Click to take over current measurement
Start temp. :	
End temp :	
•	

Measurement performed with DP3/4711-1 Place / date :

Signature inspector

Signature client

Pressure Sample Protocol for Drinking Water Plants, Wet Test Method

Cu :		ZIP/City :			
Name :		Phone :			
Street :		Others :			
Piping system material :					
Connection type :					
System pressure :	bar	Ambient temperature	: °C	Water temperature	: ° C
Drinking water plant was cl	hecked	as total system	in	partial sections	
All containers, devices the partial section to b	s, fittings non suitab be checked during th	le for the pressure to b le pressure test.	e build up are disco	onnected from the plant	:/
The plant / partial sec	tion to be checked is	s filled up with filtered v	vater and complete	ly vented.	
Function Test					
A waiting time of 30 m differences (approx. 1	ninutes for temperati 0 K) between ambie	ure compensation has ent temperature and fill	been observed by I ng water temperati	higher temperature ure.	
Pressure corresponds	s to supply pressure	of bar, tho	ugh max. 6 bar (or	manufacturer specifica	tion).
Visual check of line sy	stem has been perf	ormed.			
No pressure drop and	no leakage have be	een found during functi	on test (15 minutes	3)	
Pressure Test					
The pressure test has	been performed wi	th a minimal test press	ure of 11 bar.		
Test time 30 minutes					
No pressure drop and	l no leakage have be	een found during function	on test (15 minutes	;)	
Extended Pressure Test I	by combined insta	llation			
Pressure has been su	ink down to 5.5 bar.				
Test time 120 minutes	3				
No pressure drop and	l no leakage have be	een found during exten	ded pressure test.		
Remarks :					
Function Tes	st	Pressure Te	est	Extended I	Pressure Test
_					
Test pressure / b	ar	Test pressure	e / bar	Test press	ire / bar
Click to take over current	measuren	Click to take over curre	ent measuren	Click to take over c	urrent measuren
	J L				
Start press. Start	temp. Label71 St	art press. Sta	art temp. Label73	Start press.	Start press. Label75
The plant check has been j	performed properly	/!			
Measurement performed with	h ecom DP3/4711-	1			
Place / Date :		Signature inspector		Signature client	

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Pressure Sample Protocol for Drinking Water Plants, Dry Test Method

Cu : Name : Street : Pining system material :	ZIP/City : Phone : Others :	Con	nection type .	
System pressure : bar Ambien	t temperature :	° C	Test medium temperature :	° C
Test medium : oil-free compressed air	Nitrogen	Carbone dioxide	e	
Drinking water plant checked as	total system os, blanks or blind fla	in	partial sections	
Apparatus, pressure vessels or drinking wat	er heaters are disco	nnected from th	ne lines.	
A visual check of all pipe connections on pro	ofessional execution	has been perfo	ormed.	
Tightness Test - Test Pressure 150 mbar				
Test time min. 120 minutes up to 100 I line volum Test time is to be increased of 20 minutes per ea Temperature compensation and permanency of p	ne Ich supplementary 10 plastics to be awaited	00 I d, then test time	e starts.	
Line volume : litres T	est time :	minutes		
No pressure drop found during test time.				
Load test with increased pressure				
 Test pressure <= 50 DN max. 3 bar Test pressure > 50 DN max. 1 bar Test time 10 minutes No pressure drop found during test time. Remarks : 				
Tightness test			Load Test	
Test pressure / mbar		l	Test pressure / bar	
Click to take over current measurement		Click to	take over current measurement	
Start press. : Start temp. : End press. : End temp. : The plant check has been performed properly ! Measurement performed with ecom DP3/4711-1 Place / Date :	Sta En Signature inspector	art press. : id press. :	Start temp. : End temp. : Signature client	

. .

Pressure Sample Protocol for Heating Plants acc. to DIN 18380

bar

Cu :		ZIP/City:	
Name :		Phone :	
Street :		Others :	
Piping system mate	rial :		
Tolerated max. oper	ration pressure (related to systen	n deepest point) :	
Plant height :	m		
Estimated paramete	ers Water flow-in temperature	•	с
	Water flow-out temperature	e: •	С
Start	Date :		
	Time :		
	Test pressure :	bar	
End	Date :		
	Time :		
	Pressure drop :	bar (max. 0,2 bar	· !)

On _____ the above named plant has been heated up to the estimated temperatures and no leakage could be detected. After cool down no leakage could be found as well. A visual check reg. the correct compression of the junction parts has been performed.

By possible freezing risk, suitable measures (e.g. use of antifreeze, tempering of building) have to be taken. As soon as no antifreeze is necessary for the scheduled plant use anymore, antifreeze has to be removed while emptying and purging the plant with at least 3-fold water change.

Antifreeze added to water	Yes	No No
Procedure as explained above	Yes	No No

Remarks :

	Pressure Test Heating Plant
	Test pressure / bar
Start press. :	
End press. :	
Start temp. :	Click to take over current measurement
End temp. :	

The plant test has been performed properly !

•••

Place / Date :

Signature inspector

Signature client

Protocol Tightness Check acc. to DIN EN 1610

Cu : Name : Street :	ZIP/City : Phone : Others :
Test object :	
From shaft :	to shaft :
Pipe material :	
Diameter :	
Length (appr.) :	Capacity volume :
Test method :	Test pressure :
Test time :	by pressure value :
Fill-in start :	by pressure value :
Test start :	by pressure value :
Test end after :	by pressure value :
Test result :	Pressure drop :
Tester :	
Remarks :	

Canal Pressure Sample

Test pressure / mbar

Start press. :		
End press. :		
Start temp. :	Click to take over current measurement	
End temp. :		

Check performed properly !

Measurement made by DP3/4711-1

Place / Date :

Signature inspector

Signature client