VLW90M

Tank Inventory, Differential Level, Open Channel Flow, Pumps Control

Technical Data						
Housing material: ABS						
Mechanical installation: Wall, pipe or DIN rail mountin						
Protection degree: IP66						
Keyboard: 5 push buttons						
Display: 320x240 matrix color LCD with backlight						
Electrical connection: Internal connectors						
Working temperature: -20 ÷ +60°C						
Power supply: 85÷230Vac; 24Vdc						
Power consumption: Max. 10W						
Analog output: n.2 configurable isolated 4÷20mA						
Relays output: n.5 fully configurable relay (5A 250Vac)						
Digital output: n.2 open collector (max. 24Vdc 50mA)						
Analog input: n.2 4÷20mA						
Digital input: n.2 (max. 24Vdc 10mA)						
Digital communication: MODBUS RTU						
Datalogger: on Pen Drive USB; max.32GB (FAT32)						
Power supply for analog transmitters: 24Vdc; 200mA max						



Warranty

Products supplied by SGM LEKTRA are guaranteed for a period of 12 (twelve) months from delivery date according to the conditions specified in our sale conditions document.

SGM LEKTRA can choose to repair or replace the Product.

If the Product is repaired it will mantein the original term of guarantee, whereas if the Product is replaced it will have 12 (twelve) months of guarantee.

The warranty will be null if the Client modifies, repair or uses the Products for other purposes than the normal conditions

foreseen by instructions or Contract.

In no circumstances shall SGM LEKTRA be liable for direct, indirect or consequiential or other loss or damage whether caused by negligence on the part of the company or its employees or otherwise howsoever arising out of defective goods

Factory Test Certificate

In conformity to the company and check procedures I certify that the equipment:

VLW90M..... Production and check date:

Serial n.

is conform to the technical requirements on Technical Data and it is made in conformity to the SGM-LEKTRA procedure

Quality Control Manager



VLW90M - Safety / Mechanical installation

VLW90M is a multifunctional unit, suitable for via MODBUS RTU connection with PTU51, PTU56, METER and KTU5 ultrasonic level sensors by SGM LEKTRA. VLW90M integrates the data acquisition and display management of: levels, flow rates, pumps. Integrated data logger with data storage on memory pen (USB)

- Open channels flow measurements
-] Level and differential level measurements 🔲 Entering data via 5 push buttons
- Volume, inventory measurements
- Up to 5 pumps control in a well water rise
- Up to 8 MODBUS ultrasonic sensors + 2 4-20mA analog transmitters
- Large colours display

- Datalogger on USB pendrive
- IP66 housing for wall, pipe or DIN rail mountin
- MODBUS RTU port (RS485)
- Ultrasonic sensors cable lengh up to 1km

1. SAFETY

1.1 Installation precaution

- a) Installation shall only be performed by qualified personnel and in accordance with local governing regulations.
- b) Make sure that the working temperature is between -20 and +60°C
- c) Install the transmitter in a its physical characteristics and housing/sensor construction materials compatible environment; for external installation, protect the unit from rain and sun with a protection cover
- d) Improper transmitter use would cause serious damage to people, to the product and connected equipment.

2. INSTALLATION

2.1 Mechanical dimensions



VLW90M - Mechanical installation

2.2 Drilling template for wall mounting



2.3 DIN rail mounting



VLW90M - Mechanical installation

2.4 Mechanical installation accessories







3. CONNECTIONS

3.1 Wiring

- 1) Separate the engine control cables or power cables from the VLW90M connection cables.
- 2) Remove the caps from the cable glands and open the cover by unscrewing the screws.
- 3) Lead the cables into the transmitter through the cable glands
- 4) Close the cap and tighten the cable glands



The immunity to electromagnetic interference is in accordance with ${f C}{f C}$ directives

3.2 Recommendations for external mounting

- for electrical connections, use a cable with a 6÷12mm outer diameter and fully tighten the M20 cable gland
- fully tighten the cap
- position the cable so that it forms a downward curve at the M20 output (Fig.6); in this way the condensation and/or rain water will tend to drop from the curve bottom





3.3 SGM Lektra Ultrasonic MODBUS level transmitters connection

Up to 2 **SGM LEKTRA** ultrasonic level transmitters can be directly powered by the **VLW90M** (see Figure 7). With more than two ultrasonic sensors **SGM LEKTRA**, 24Vdc additional power supply is needed (see fig.8)









3.4 ATEX certified METER or radar RPL / RWL level transmitters connection







3.5 SGM LEKTRA hydrostatic head level transmitters connection



3.5 Analog and digital outputs connection



3.6 USB Pen Drive connection (Data Logger)

VLW90M, thanks to its internal data logger (see Chapter 12), can be stored on USB pen drive the flow, level, differential level, volume measurements data reading and pumps control or water lifting pumps operating states. The pen drive requires FAT32 formatting and can be 1GB, 4GB, 8GB or 32GB size.



4. PROGRAMMING

VLW90M is a programmable unit suitable for different functions::



VLW90M - Programming

4.1 Unit/user Interface

Opening the display cover the 5 buttons for programming are accessible.

The key functions are always described when every single menu and program parameters page are displayed

The **VLW90M** menu structure is simple and easy to intuition. Quick start guides are available to facilitate startup, the quick start guides summary is in section 4.4.



Fig.19

4.2 VLW90M turning on and system initialization

At power on, VLW90M start automatically the following system procedures:

- Firmware loading for the VLW90M unit operating (fig. 19.a). A green bar is displayed to indicate the initialization procedure progress.
- Searching for SGM LEKTRA ultrasonic sensors connected via MODBUS RTU communication port (RS485) (fig. 19.b). The following information is displayed:
 - a) **★ Probes Found: 4**; shows the ultrasonic sensors number connected, with the properly configured **UID** address (see chapter 11,)
 - b) UID1.....UID4 ; showing the measuring sensor model with its UID address.

In the example shown in fig.19.b, 4 sensors are identified with their model and UID address.

- Searching for data logger Pen Drive connected to the USB port. The following information is displayed:
 - a) ★ USB CONNECTED; shows that a FAT32 formatted Pen Drive is connected to the USB port (Fig. 19.c) and the datalogger function is automatically enabled (see chapter 12)
 - b) X USB NOT CONNECTED; shows that no Pen Drive is connected to the USB port (Fig. 19.d), or that the pen drive connected to the USB port is not FAT32 formatted; In this case, connect the Pen Drive to a PC or notebook, and format it by selecting the "FAT32" option in "File System". After is possible to connect the Pen Drive following the procedure described in Chapter 12.





× USB NOT CONNECTED

* PROBES FOUND: 4

* USB CONNECTED * PROBES FOUND: 4

UID1: METER 5m UID2: PTU_51 UID3: PTU_56

UID4: METER 8m

UID1: METER 5m UID2: PTU_51 UID3: PTU_56 UID4: METER 8m

Fig.19.d



VLW90M

Fig.19.b







OUTPUT - Menu to configure the analog/digital outputs and the 5 threshold relay.



TOTALIZER - Menu for the flow totalizers management



INFO - VLW90M info menu.

WARNING! - The documentation provided with the **VLW90M** contain the most frequently used indications. If it's necessary refer to the full manual, it can be downlo-aded from our website <u>www.sgm-lektra.com</u>, in the products section.



VLW90M - Set up guides

4.4 Set Up guides

In the following chapters there are the set up guides for frequently used measurement functions:





5. OPEN CHANNELS FLOW MEASUREMENT SET UP GUIDES

The procedures for open channels flow measurement quick start are available in this section:

- SGM VENTURI STD prefabricated channels configuration; paragraph 5.1 (pag.17)
- Constriction rectangular weir (Francis) configuration; paragraph 5.2 (pag.18)



SGM LEKTRA "PALMER BOWLUS" prefabricated channels configuration; paragraph 5.3 (pag.20)



Fig.22

Volume pulse repetition configuration for remote totalizer; paragraph 5.4 (pag.22)



4÷20mA output configuration for flow rate transmission; paragraph 5.5 (pag.23)



Measures display configuration; paragraph 5.7 (pag.25)





Flow rate threshold relays configuration; paragraph 5.6 (pag.24)





FLOW

to access the main menu

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5.1 SGM VENTURI STD prefabricated channels configuration

The **SGM-LEKTRA** developed in collaboration with the Pavia University Hydraulics Institute a "**SGM VENTURI STD**" called venturi channels family. These primary device are Venturi channels with a flat bottom and they are suitable to be installed in pre-existing rectangular channels. The **SGM VENTURI STD** are suitable for use in irrigation systems, water treatment, industrial wastewater, for sewage sludge and for any murky waters; the flat bottom without protrusions has a self-cleaning effect that makes it difficult to debris deposit. **SGM VENTURI STD** can be easily incorporated into existing rectangular channels. The fundamental importance parameters, to obtain the correct flow measurement, are highlighted with the **Sem Symbol**.

To configure the flow measurement with **SGM VENTURI STD** channels follow the procedure below:





Manually measure in mm the "**ACTUAL HEAD**" and insert the data, the unit will automatically calculate the fluid distance to the "**Q=0**" point (zero flow distance). Alternatively, can directly be entered the "**Q=0**" empty distance. In fig.26 the example to correctly detect the "**ACTUAL HEAD**" measure. It is recommended to use the "**ACTUAL HEAD**" system with the zero flow condition (no flow: see fig.27), because in doing so the "**ACTUAL HEAD**" or "**Q=0**" manually measurement distance errors are avoided. "**ACTUAL HEAD**" set to "**0**" is enough to ensure the correct calibration.





5.2 Constriction rectangular weir (Francis) configuration

The fundamental importance parameters, to obtain the correct flow measurement, are highlighted with the symbol. To configure the flow measurement with rectangular weir (Francis) follow the procedure below:



Page 18 of 56





measurement, are highlighted with the **SGM** LI **BOWLUS**" prefabricated channels channels follow the procedure below:











the unit will automatically calculate the fluid distance to the "Q=0" point (zero flow distance). Alternatively, can directly be entered the "Q=0" empty distance. In fig.32 the example to correctly detect the "ACTUAL HEAD" measure. It is recommended to use the "ACTUAL HEAD" system with the zero flow condition (no flow: see fig.33), because in doing so the "ACTUAL HEAD" or "Q=0" manually measurement distance errors are avoided. "ACTUAL HEAD" set to "0" is enough to ensure the correct calibration.





5.4 Volume pulse repetition configuration for remote totalizer

The VLW90M has 2 configurable digital open collector outputs for flow totalizer pulse repetition.





5.5 4+20mA output configuration for flow rate transmission

The VLW90M has 2 configurable analog outputs 20mA for the flow measurement remote transmission.





5.6 Flow rate threshold relays configuration

The VLW90M has 5 configurable relays for flow rate alarm thresholds.





5.7 Configuration of displaied measures

The VLW90M can display the flow rate measurement and the relative volume totalizer.

With the arrow keys select the "MAIN SETUP" immunicon. Confirm the selection by pressing		MAIN SETUP LANGUAGE •DISPLAY SETUP DATE ADJUST SENSOR SEARCH DATALOGGER SERVICE CHANGE PASSWORD UPDATE CONNECTIONS	Press or select " DISPLAY SETUP ". Confirm with .
5.7.1 Press with to select " DISPLAY MEASURES " and confirm with with with with with with with with	DISPLAY SETUP 1.2 LCD COLOR BACKLIGHT ●DISPLAY MEASURES SCROLL TIME TREND DISPLAY ↑ + to move → to select	DISPLAY MEASURES 1.2.3 • * FLOW1 UCLINES 1.2.3 • * FLOW1 UCLINES (CVEI) WILLINES (CVEI) WILLINES (CVEI) (CVEI) WILLINES (CVEI) (CVEI) WILLINES (CVEI) (CVEI) WILLINES (CVEI) (CVEI	With the • pointer to *FLOW1 ", press ** , the * symbol will highlight the selection. Press * to save and exit. *FLOW2 " is <u>available only when active</u>
Press 2 times 🚺 to return to the main menu. Select 🖭 and press 📰 to return to " RUN " mode		FLOW1 10.888 m3/h 1001 14329,24 m3 FLOW2 43.65 m3/h 1001 68240,37 m3 *1	

18/81/2812 ANALOG1

28.3 46 2

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6. LEVEL MEASUREMENT SET UP GUIDES

The procedures for level measurement quick start are available in this section:

via MODBUS SGM LEKTRA ultrasonic transmitters configuration; paragraph 6.1 (pag.26)



4÷20mA output configuration for measurement level transmission to remote displays; paragraph 6.3 (pag.28)



Measures display configuration; paragraph 6.5 (pag.30)



From RUN mode press

to access the main menu

Fig.36

 4÷20mA analog transmitter configuration; paragraph 6.2 (pag.27)



Level threshold relays configuration; paragraph 6.4 (pag.29)





6.1 via MODBUS SGM LEKTRA ultrasonic transmitters configuration

The use of **SGM LEKTRA** ultrasonic level transmitters, with **MODBUS RTU** communication protocol, allows the level measurement total control with the **VLW90M** unit.

The fundamental importance parameters, to obtain the correct level measurement, are highlighted with the symbol. To configure the level measurement with SGM LEKTRA ultrasonic transmitters follow the procedure below:





6.2 4+20mA analog transmitter configuration

With the 2 VLW90M analog inputs is possible to control the measurement with any level sensor that transmits an 4:20mA analog signal.

The fundamental importance parameters, to obtain the correct level measurement, are highlighted with the symbol. To configure the level measurement with **4÷20mA** analog level transmitters follow the procedure below:







6.3 4÷20mA output config. for level measurement transmission to remote displays The VLW90M has 2 configurable analog outputs 20mA for the level measurement remote transmission.





6.4 Level threshold relays configuration

The VLW90M has 5 configurable relays for level alarm thresholds.





6.5 Configuration of displaied measures

The VLW90M can display the level measurement.







LEVEL

7. DIFFERENTIAL LEVEL MEASUREMENT SET UP GUIDES

The procedures for differential level measurement quick start are available in this section:

- via MODBUS SGM LEKTRA ultrasonic transmitters configuration; paragraph 7.1 (pag.31)



- 4÷20mA output configuration for differential level transmission to remote displays; paragraph 7.3 (pag.34)
 - 4+20mA
- Measures display configuration; paragraph 7.5 (pag.36)



4÷20mA analog transmitter configuration; paragraph **7.2** (pag.33)



Differential level threshold relays configuration; paragraph **7.4** (pag.35)



From **RUN** mode press to access the main menu



7.1 via MODBUS SGM LEKTRA ultrasonic transmitters configuration

The use of SGM LEKTRA ultrasonic level transmitters, with MODBUS RTU communication protocol, allows the differential level measurement total control with the VLW90M unit. The fundamental importance parameters, to obtain the correct level measurement, are highlighted with the \sim symbol. To configure the level measurement with SGM LEKTRA ultrasonic transmitters follow the procedure below:



NB - Perform the steps described in **7.1.1.2** and **7.1.2.2** sections (**CALIBRATION**) during the "**Level difference = 0**" real condition, because this condition allows to enter the same "**ACTUAL LEVEL**" value, automatically obtain the correct **0** setting (**UPSTREAM LEVEL - DOWNSTREAM LEVEL = 0**)









VLW90M - Differential level measurement set up guides



	DIFF	DIFFERENTIAL DIFF: 24 mm				
	UPSTREA	M LEV	1758			
TASK	DOWNST	REAM LEV	1736 mm			
	10/01/201	ANALOG 1	28.			

7.2 4+20mA analog transmitter configuration

With the 2 VLW90M analog inputs is possible to control the measurement with any level sensor that transmits an 4:20mA analog signal.

The fundamental importance parameters, to obtain the correct level measurement, are highlighted with the symbol. To configure the differential level measurement with **4÷20mA** analog level transmitters follow the procedure below:





=(D)

DIFF. LEVEL

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7.3 4÷20mA output config. for differential level transmission to remote displays The **VLW90M** has 2 configurable analog outputs 20mA for the differential level remote transmission.







7.4 Differential level threshold relays configuration

The **VLW90M** has 5 configurable relays for differential level alarm thresholds.



VLW90M - Differential level measurement set up guides



7.5 Configuration of displaied measures

The VLW90M can display the differential level measurement.









8. VOLUME MEASUREMENT SET UP GUIDES

The procedures for volume measurement quick start are available in this section:

- via MODBUS SGM LEKTRA ultrasonic transmitters configuration; paragraph 8.1 (pag.37)



- 4÷20mA output configuration for volume measurement transmission to remote displays; paragraph 8.3 (pag.41)



- Measures display configuration; paragraph 8.5 (pag.43)



4÷20mA analog transmitter configuration; paragraph **8.2** (pag.40)



RPL/RWL

Volume threshold relays configuration; paragraph 8.4 (pag.42)



From **RUN** mode press to access the main menu Fig.48



8.1 via MODBUS SGM LEKTRA ultrasonic transmitters configuration

The use of **SGM LEKTRA** ultrasonic level transmitters, with **MODBUS RTU** communication protocol, allows the level measurement total control with the **VLW90M** unit.

The fundamental importance parameters, to obtain the correct volume measurement, are highlighted with the symbol. To configure the volume measurement with **SGM LEKTRA** ultrasonic transmitters follow the procedure below:







VOLUME MEASURE

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VLW90M - Volume measurement set up guides



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8.2 4÷20mA analog transmitter configuration

With the 2 VLW90M analog inputs is possible to control the measurement with any level sensor that transmits an 4:20mA analog signal.

The fundamental importance parameters, to obtain the correct volume measurement, are highlighted with the symbol. To configure the volume measurement with **4÷20mA** analog level transmitters follow the procedure below:



VLW90M - Volume measurement set up guides

Press 2 times 🐖 to return to the main menu. Select 🕅 and press 📰 to return to "**RUN**" mode





8.3 4:20mA output configuration for volume measurement transmission to remote displays

The VLW90M has 2 configurable analog outputs 20mA for the level measurement remote transmission.



8.4 Volume threshold relays configuration

The VLW90M has 5 configurable relays for volume alarm thresholds.



8.5 Configuration of displaied measures

The VLW90M can display the level measurement.







VLW90M - Pump control set up guides

9. PUMP CONTROL SET UP GUIDES

The procedures for pump control quick start are available in this section:

via MODBUS SGM LEKTRA ultrasonic transmitters via MODBUS SGM LEKTRA ultrasonic transmitters configuration; paragraph 9.1 (pag.44) configuration; paragraph 9.2 (pag.46) Fig.56 Fig.55 **P-BADP RPL/RWL PTU51 PTU56** METER KTU5 Measures display configuration; paragraph 9.3 (pag.48) PUMP CONTROL PUMP I (RLD LEV From **RUN** mode press 1758 mm RL PUMP 2 (RL2) LEV RL to access the main menu PUMP 3 (RL3) LEV 4 (RL4) LEV Fig.57 2012 ANALOG1

9.1 via MODBUS SGM LEKTRA ultrasonic transmitters configuration

The use of **SGM LEKTRA** ultrasonic level transmitters, with **MODBUS RTU** communication protocol, allows the level measurement total control with the **VLW90M** unit. The fundamental importance parameters, to obtain the correct pump control, are highlighted with the **SGM LEKTRA** ultrasonic transmitters follow the procedure below:



VLW90M - Pump control set up guides



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9.2 4+20mA analog transmitter configuration

With the 2 **VLW90M** analog inputs is possible to control the measurement with any level sensor that transmits an **4÷20mA** analog signal. The fundamental importance parameters, to obtain the correct pump control, are highlighted with the symbol. To configure the pump control with **4÷20mA** analog level transmitters follow the procedure below:



the sensor connection to **Analog Input Ch2** terminals (see par.3.4/3.5 at pages 8/9). Press to confirm.



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VLW90M - Pump control set up guides RPL56 Set in mm the lower threshold 3.11.1.6 LOWER TH LEVEL level value (see fig.61). Move 80800mm the cursor with is and to change the digit. Confirm with to modify to confirm Press 2 times **[** to return 100% UPPER TH to the main menu. Select LEVEL and press 📰 to return to "RUN" mode measure Level 2000mm LOWER TH LEVEL PUMP CONTROL PUMP 1 (RL1) LEV 1758 mm 800mm PUMP 2 (RL2) LEV PUMP PUMP 3 (RL3) LEV PUMP 4 (RL4) LEV 0% PUMP 5 (RL5) LEV Fig.61 18/81/2012 AHALOG1

9.3 Configuration of displaied measures

The **VLW90M** can display the level measurement.







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10. WELL WATER RISE SET UP GUIDES

The procedures for pump control quick start are available in this section:

METER

via MODBUS SGM LEKTRA ultrasonic transmitters
configuration; paragraph 10.1 (pag.49)

Fig.62

PTU51

PTU56

paragraph 10.5 (pag.53)

Measures display configuration;

RUN TIMI RUN TIMI RUN TIMI

WELL WATER RISE

1083

via MODBUS SGM LEKTRA ultrasonic transmitters configuration; paragraph **10.2** (pag.51)



RPL/RWL

Fig.64

From RUN mode press

to access the main menu



10.1via MODBUS SGM LEKTRA ultrasonic transmitters configuration

KTU5

The use of **SGM LEKTRA** ultrasonic level transmitters, with **MODBUS RTU** communication protocol, allows the level measurement total control with the **VLW90M** unit.

The fundamental importance parameters, to obtain the correct pump control, are highlighted with the symbol. To configure the well water rise with **SGM LEKTRA** ultrasonic transmitters follow the procedure below:



VLW90M - Well water rise set up guides







10.2 4+20mA analog transmitter configuration

With the 2 VLW90M analog inputs is possible to control the measurement with any level sensor that transmits an 4÷20mA analog signal. The fundamental importance parameters, to obtain the correct pump control, are highlighted with the symbol. To configure the well water rise with 4÷20mA analog level transmitters follow the procedure below:



VLW90M - Well water rise set up guides







WELL WATER RISE



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11. METER OR PTU51/56 SENSOR Via MODBUS NEW CONNECTION

The procedures for METER or PTU51/56 sensor Via MODBUS new connection quick start are available in this section:



11.1via MODBUS SGM LEKTRA ultrasonic transmitters configuration

The use of **SGM LEKTRA** ultrasonic level transmitters, with **MODBUS RTU** communication protocol, allows the total sensor control with the **VLW90M** unit.







VLW90M - Datalogger

12. DATALOGGER

The guides for integrated **DATALOGGER** are available in this section:

12.1DATALOGGER on USB Pen Drive activation

The fundamental importance parameters are highlighted with the 🔩 symbol.







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12.2.2 To read the stored data, simply insert the pen drive into a PC or a notebook **USB** port and open the "**LOG_FILE.TXT**" datalogger file directly with **EXCEL**[®] or **CALC** by OpenOffice.org[™]. The following data are available in the table DATA LOGGER (columns):

DATE TIME TASK **UID** (ultrasonic sensor UID address) **FLOW** (flow rate measure) unit (flow rate measure unit) **TOT** (flow totalizer volume) unit (flow totalizer measure unit) **LEV** [mm] (level measure) **VOL** (volume mesure) unit (volume measure unit) **DIFF[mm]** (differential level measure) PUMP LEV[mm] (pump level measure) RL1/2/3/4/5 (relay status; 0 = relay de-energized 1 = relay energized) **DIST ERR** (ultrasonic sensor distance measurement error; 0 = normal condition, 1 = error condition) **MAXGAIN ERR** (ultrasonic sensor max gain alarm; 0 = normal condition, 1 = alarm condition) **NOECHO** ERR (ultrasonic sensor echo signal reception absence; 0 = normal condition, 1 = alarm condition) **TEMP ERR** (ultrasonic sensor temperature measurement error; 0 = normal condition, 1 = alarm condition)

DATE	TIME	TASK	UID	FLOW	unit	TOT	unit	LEV[mm]	VOL	unit	DIFF[mm]	PUMP	LEV[mm]
22/05/2013	18:26:16	FLOW1	1.00	1 28513,68	i/m	2529,30	m3	0	0.00		0		0
22/05/2013	18:26:36	FLOW1		1 23816.33	I/m	2538,02	m3	0	0.00		0		0
22/05/2013	18:26:56	FLOW1		1 6636,55	1/m	2542,76	m3	0	0,00	7.4	0		0
22/05/2013	18:27:16	FLOW1		1 11376.47	1/m	2545.24	m3	0	0.00		0		0

Fig.72



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Documentation subject to technical change with no prior warning

Page 56 of 56 Pages from 56 to ____ (full manual) can be downloaded from our website www.sgm-lektra.com in the products section