

BAMOCOR 759 E - M LOGGER

SUMMARY

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FLOW CALCULATOR FLOW CALCULATOR FOR BAMOCOR 759 E - M LOGGER

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1- TECHNICAL CARACTERISTICS

Display	: Water column - Instant flow rate - Volume - menu.
Screen	: 16 alphanumeric characters, H = 9,22 mm High - Backlighted.
Visualisation	: By 3 red LED on front panel for relays status.
Data setting	: By 5 press button keyboard on front panel - programmation protection by acces code.
Measure scale	: Water column (mm) - 1 mm resolution. Flow (m3/h) - 0,1 m3/h resolution. Volume (m3) - 1 m3 resolution.
Totalisation	: Per day - 6 digits - reset by menu. Permanent - 8 digits - without reset.
Measure input	: 4 - 20 mA proportionnal from water high.
Memorized curves	: ISO 4959 venturi chanel 94FL series - 92 and 96 FL series. V notch (28, 31, 53 and 90°) and U notch (10, 20, 30, 40, 50, and 60).
Relay	 : 1 set to to flow measure. Adjustable hysteresis from 0 to 100% - adjustable timer from 0 to 9999 s. 1 volt free change over contact - breacking capacity : 500VA / 250V / 2A.
Sapler control relay	: Programmation on passed volum (m3). 1 volt free change over contact - breacking capacity : 500VA / 250V / 2A. Contact keeping timer adjustable from 0 to 9999 s.
Puls output	: For puls copy - 1 puls / m3 1 volt free change over contact - breacking capacity : 500VA / 250V / 2A.
Currant output	: 0 / 4 - 20 mA (maxi 600 ohm)proportionnal from flow- adjustable scale. Standard galvanic insulation.
Power supply	: 230V / 60Hz single - Others on request - Consumtion 10VA.
Presentation	: Wall housing - IP65 - Connection on screw terminal and cable inlet by CG13,5.
Options (not concurrently)	: Communication : J BUS link - Binary slave mode, RS422 or RS485 output - 2400 to 9600Bps Logger : automatic reccording flow average in setted periode. Max 368000 reccording (ex : 1 mn periode = 6 month reccording). Be car eto the data tranfert time, at 6900 BDS, it will need more than one our. Automatic memory reset after data transfert.

2 - CAUTION

During installation, BAMOCOR must be fixed on support without vibration, temperature must be between 0 and 50°C and protected from sun rays.

Electrical connections must be done by a specialist. Any dammage due to a not good wirering will cancel the waranty. Befor start up, ensure to have the good voltage.

3 - PRESENTATION

BAMOCOR 759 is a flow calculator for flow with venturi chanel. Flow is directely fonction from water high measured in the chanel. This flow is calculated by a micropocessor which integrate all standard chanel curves and specific curves required by our customers. BAMOCOR exist in two formes, wall housing or enclosure housing. On both case, there is 16 alphanumerical backlighted LCD display. Intuitive and easy-to-use menu. An acces code is necessary to modify any data, to avoide that non authorized person may use it.



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7 - CONSULTATION / MODIFICATION MODE

There is two menu mode :

- Consultation mode, the operator may see different programmed data but can not modify it.

- Modification mode, the operator is allowed to modify all parameters (relays, regulation, ...), This mode can be use through an acces code which is four last digits of the serial number. (ex : 12345-67. code will be 4567)

8 - MENU LIST

8.1 : Measure display :

Display menu when you turn on the power is flow rate	FLOW xxxx m3/h
Press ENTER	
Level display	LEVEL xxxx mm
Press ENTER	
Totalized volume display	V. xxxxxx m3
Press ENTER	
Day volume display	V.D. xxxxxx m3
Press ENTER	
To reset day volume	RESET D.V. NO (YES)
Press ENTER	
If your selection is RESET D.V. NO, you go back to flow display	
If your selection is RESET D.V. YES, it is displayed	VALID ?
Press VALID key to resent the counter or press MENU or ENTER to skeep the reset	
(this counter goes automatically back to 000000 after 999999)	

8.2 : ABOUT BAMOCOR : software version and serial number.

Press MENU untill :	ABOUT BAMOCOR
Press ENTER :	VERSION : 4.xx
Press ENTER :	SERIAL N° :
Press ENTER :	XXXXX-XX

Note : last four (rigth) digits are acces code for modofocation menu

8.3 : MODIFICATION / CONSULTATION, acces code dial

Data reading and setting How to go to MODIFICATION Press MENU untill Press ↑ to display Press ENTER to display Dial the code ↑ and ⇒ keys Press ENTER If dialed code is wrong, display is ERROR During 3 secondes If dialed code is right, display is

Press MENU to select data to modifyed CODE : to know access code see chapter 7 CONSULTATION MODIFICATION CODE ? 0000

TIME : 30 MIN



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8.4 - MEASURE DATA

To acceed to "MEASURE DATA menu	
Press MENU untill	MEASURE DATA
Press ENTER to display	DEVERSOIR V28°
This display confirm chanel type for level/flow measure	or
In MODIFICATION mode press 🕆	AR xxxxxx
to select the notch or venturi chanel in reccorded list	
Press ENTER to display	LEVEL SENSOR
Press ENTER to display	LOWER : 04,00 mA
In MODIFICATION mode press $$ and \Rightarrow to select	
Press ENTER to display	HIGHER : 20,00 mA
In MODIFICATION mode press $$ and \Rightarrow to select	
Press ENTER to display	SCALE : xxxx mm
This step allows to set scale of level sensor associated to	
the BAMOCAL (In MODIFICATION mode press $ \widehat{} $ and $ \Rightarrow $	
Press ENTER to display	VALIDE ?
Press VALID key to save new data	
In case level transmission by BAMOBUL,	
HIGHER and LOWER value are allways 4 and 20 mA.	
8.5 - FLOW ALARM	
This menu allows to set an alarm on flow	
Press ENTER to display	ALARM ON
In MODIFICATION mode press	
Press ENTER to display	ALARM HIGH
In MODIFICATION mode press 1	
Press ENTER to display	ON xxxx m3
Set value for active S1	
In MODIFICATION mode press \Uparrow and \Rightarrow	
Press ENTER to display	OFF xxxx m3
Set value for release S1	
In MODIFICATION mode press \Uparrow and \Rightarrow	
Press ENTER to display	DELAY UP YES (NO)
Set value for active S1 timer	
In MODIFICATION mode press 🕆	
Press ENTER to display	TIME : xxxx Sec
Set value for active S1 timer	
In MODIFICATION mode press $ $ and $ \Rightarrow $	
Press ENTER to display	DELAY DOWN YES (NO)
Set value for release S1 timer	
In MODIFICATION mode press 🏦	
Press ENTER to display	TIME : xxxx Sec
Set value for release S1 timer	
In MODIFICATION mode press $$ and \Rightarrow	
Press ENTER to display	VALIDE ?
Press VALID key to save new data	

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8.6 - SAMPLER CONTROL

This menu allows to set output puls for wast water sampler Press MENU untill Press ENTER to display In MODIFICATION mode press ↑ Press ENTER to display Press ENTER to display Press ENTER to display In MODIFICATION mode press ↑ and ⇒ Press ENTER to display Press ENTER to display Press ENTER to display Press VALID key

8.7 - OUTPUT mA flow

Press MENU untill Press ENTER to display In MODIFICATION mode press ↑ and ⇒ Press ENTER to display In MODIFICATION mode press ↑ and ⇒ Press ENTER to display Press ENTER to display Press VALID key

8.8 - CLOCK

Press MENU untill Press ENTER to display Data adjusted in factory Press ENTER to display Data adjusted in factory Press ENTER to display If you want to modify those data select YES and press ENTER In MODIFICATION mode press (↑ and ⇒

8.9 RECORDING PERIOD

This menu allows to adjust time between two record period Press MENU untill Press ENTER to display Press ENTER to display In MODIFICATION mode press ↑ and ⇒ Press ENTER to display Press VALID key SAMPLER CONTROL SAMP. CONT. ON (OFF)

ON xxxx m3

TIME ON PULSE TIME xxxx Sec

SAVING ?

OUTPUT mA FLOW HIGHER xxxx m3

LOWER xxxx m3

OUTPUT4/20mA SAVING ?

> CLOCK 26/01/1998

15:36:22

CHANGE NO (YES)

RECORD PERIOD BETWEEN 1 AND 60 PERIOD : xxxx min

SAVING ?

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8.10 - SERIAL LINK

J-BUS link data setting Press MENU untill Press ENTER to display Characters length, this value can not be modify Press ENTER to display In MODIFICATION mode press ↑ and ⇒ Press ENTER to display In MODIFICATION mode press ↑ Press ENTER to display Station number, adjustable from 1 to 247 In MODIFICATION mode press ↑ and ⇒ Press ENTER to display Station number, adjustable from 1 to 247 In MODIFICATION mode press ↑ and ⇒ Press ENTER to display Press ENTER to display

8.11 - LANGUAGE : select French / English / Italian

Press MENU untill Press ENTER to display Press ENTER to display Press VALID key PARITY NO (EVEN, ODD) Nb.STOP 1 (1,5 , 2)

SERIEL COM.

DATA: 8bits

SPEED 2400Bps (4800, 9600)

STATION 012

SAVING ?

LANGUAGE FRENCH (ENGLISH -ITALIAN) SAVING ?

8.12 - PROGRAMMED CHANEL CURVES

BAMOCOR 759 has, in its memory, an important curves list (over 70) of venturi chanels, V-notch, U-notch which can be delivered by BAMO Mesures. In MEASURE DATA menu (see §8.4 - programmation) it's possible to select a curve which interst you, in MODIFICATION mode.

"SPECIAL CURVES"

In case of special curve for your application this one will has your order acknowlegment number as name

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