VISUAL 62

Supervision

(English version)

INDUSTRIAL SCIENTIFIC

OLDHAM





CONTENTS

HARWARE STRUCTURE	Page 1
SUPERVISION PRINCIPLE	Page 1
FIRST START	Page 1
ADMINISTRATION SCREEN	Page 2
VISUALIZSATION SCREEN	Page 7
QUICK TREND FONCTION	Page 10
LOGGING CONFIGURATIONS (recordings)	Page 11
RECORDINGS LOGGINS VISUALIZATION	Page 13
REAL TIME VALUES VISUALIZATION	Page 14
ALARMS SCREEN	Page 15
MIMIC ANIMATIONS	Page 18
RS485 Hardware connections GATE 62	Page 19
RS422/485 Hardware connections (Moxa card)	Page 20
LEDS STATES GATE 62/ GATE62 ETH	Page 21

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HARDWARE STRUCTURE :



(*): With GATE 62 standard : To envisage adapter RS232 - > RS422/485 if none existing.

SUPERVISION PRINCIPLE

The stations Oldham MX62 are in communication on the PC of supervision via the dedicated bridges (GATE62). The station of supervision carries out the repatriation of information sensors established on site and provided to the user via the synoptic, curves and recording.

Controls of communication are integrated into the level of the supervision and inform the users in the event of loss of power station, loss of bridge or loss of communication in general. This information is stored in the PC and can be printed.

FIRST START:

At the first start of VISUAL62, the "Administration screen " appear to allow the configuration application, next start that will be the " Visualization Screen "

ADMINISTRATION SCREEN

At the first start of visual62, if no MX62 are configured, the Administration Screen appear to configure the project. Then this screen will be available through the "Navigation" banner or through the start menu of Windows

This screen is used to declare the MX62 used on the system

INDUSTRIAL SCIENTIFIC	ADMINISTR	ATION	
Topologie du réseau	M1) ID SNP:	Nom: CENTRALE#1	Commandes et status Validation Automatique Configuration OK Potts: Ports OK Adresses: Adress ok Generer la nouvelle configuration Verrouillage Langage Langage Langage Italiano Español De Sche English
Options Impression des Alarmes Synoptique supplémentaire	(AJOUT) SUPPRESSION)		

MX62 Declaration : Up to 16 MX62 can be configured

- 1 : MX62 declaration part
- 2: Validation Banner
- **3** : Banner alarm power already configured.
- 4 : Options choice.
- 5 : Configuration Lock and Unlock access
- **6** : Selecting the language used in the program

1 : MX62 declaration part

- (1): Check Box to declare a new MX62.
- (2): Choose the network protocol used to communicate with the GATE62.
- (3): Select the PC port of communication with GATE62.

IMPORTANT NOTE: No more than 4 x GATE62 on the same Port.

- (4): GATE62 address (IP or ID SNP, depend of the protocol)
- (5) : Enter MX62 name
- (6): If all ok, the "validation" button will be available. In other case, the automatic validation
- (7) : will give you the error to correct.

Topologie du réseau	Commandes et status
CENTRALE #1 CENTRALE #1 CENTRALE #1	Validation Automatique
CENTRALE #2 Ethernet A TCPIPO Adresse IP: 192.168.33.101 Nom: CENTRALE #2	Configuration OK
(1) (2) (3) (4) (5) (5)	Adresses: Adresses dupliquées

BAD CONFIGURATION

Topologie du réseau	Commandes et status
CENTRALE #1 Ethernet	Validation Automatique
CENTRALE #2 SNP COM1 ID SNP: 1 Nom: CENTRALE #2	Configuration OK
CENTRALE #3	Adresses: Adresses OK
	Generer la nouvelle configuration

CONFIGURATION OK

2 : Validation Banner

The console banner indicates that the configuration entry is valid and authorized by the appearance of the button located below 'Generate the new configuration'.

3 : Banner alarm power already configured

Alarms information of MX62 already existing.

4 : Options Selection

Two options :

- Alarm printing options - Add Synoptic

Alarm printing Option

Options

Validation of real time printing alarm on Matrix printer (parallel port)



Note : The printer could be unselect on the "screen alarm" (if this option is allowed through the "Administration screen".

Sélection des classes d'alarmes à imprimer						
ALI - Alarme 1 EGMM - Gestion communication Visual52 DEF - Voie en defaut (channel falure) ERC - Eneur de communication entre le capteur et la MX62 HIGH - High Priority Alarms LOW - Low Priority Alarms LOW - Low Priority Alarms LSC - Ligne signal en cout-circuit (short circuit) MED - Medium Priority Alarms QVF - Excess de signal - 20 mA (overflow) SMAI - Service mode: Alarem hinbibe (alarm inhibited) SMT - Service mode: Alarem hinbibe (alarm inhibited) SMT - Service mode: Alarem hinbibe (alarm inhibited) SMT - Service mode: Voie en calibration (calibration) SMT - Service mode: Voie en calibration (calibration) SMT - Service mode: Voie en test (operational test) UNF - Signal instifaret < 4 mk (underflow) VDE - Voie desactivée (Channel disabled) \$SYS - Alarmes système	<.	AL2 • A AL3 • A	klarme 2 klarme 3			
					OK	Cancel



(SELECT CLASS) : When selected, the window below appear to choose what type of alarm will be printed. (drag and drop from left to right side to select, ok to accept)

(ADD SYNOPTIC OPTION)

The second option allows you to insert or remove a synopsis in the navigation of the application This window appears when selecting the Add menu. It allows you to select the synopsis to be added to the navigation menu of the application.





After selecting the Overview, you can customize the name that will appear in the navigation menu.



Note : You can add up to 16 new screens in the navigation.

It is possible to delete a mimic added in the navigation menu by selecting the menu SUPRESSION window showing the following:

Administrati	on	OK
		Cancel

To remove the synoptic menu (not the file), select its name, then select the OK button.

Note : This option is valid at the time of selection or removal of the new synoptic in the navigation. There is therefore no need to generate a new configuration option for the opposite effect.

ΟK

Cancel

Help

5 : Configuration Lock and Unlock access

✓ Verrouillage

- Lock :

Clicking on the red notch to the left of text "**Verrouillage**", shows the following message asking to fill out the username and password.

The user entry is: 'administrator' The default password for the installation of monitoring is: 'administrator'

Once the user is validated, the orders of supervision are unlocked.

- Configuration actions Unlocked :

A click on the box to the left of the text "**Verrouillage**", blocks access to configuration commands supervision.

When orders configuration are unlocked, you can change the password for user 'administrator' by clicking 'Change Password'.

To change the password, click on the 'change password' below the specified lock

Two successive box will appear:

First box: write the old password

Second box : write the new password

- Locking configuration: Check the box to lock

5 : Selecting the language used in the program

This selection can change at any time the language used in the application.

NB: The texts of the alarms will be changed to change the day.



Enter the actual password :

Enter the new password :

OK Cancel

Old Password

New Password

Verrouillage

Change Password

CIMPLICITY® Login - VISUAL62

Save User ID + Password

Liser ID -

Password :

Verrouillage

OK Cancel

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VISUALIZATION SCREEN :



1 : Front view visualization of MX-62

2 : View of a track



Track set in MX-62

Track not configured Or off in MX-62



Note of our Conference of the former

Methan

Voie 8

description 8

1

2

3

4

5

6

Note about Software coordinates Sensor: (correspond to actual physical connection of the sensor module, channel ...)

0.000 - 100.000

The statement consists of a letter (A, B, C or D) indicating on which module is the physical sensor, followed by a number (1 to 16) for positioning. (A0 module 1-A8, A9 A16-2 module D1-D8 module 7, D9-D16 module 8)

<u>3 : Screens retail channels.</u>

Voie 8 description 8

10

0.000

You can specify up to 4 channels simultaneously. Left clicking on a highway will bring up a window selection, to select the screen where you want detail view the information of the track.

SW A08

A08

% LE

0,000 - 100,000

9

8

7

Decomposition	of the	Details	window

Methan





13

2 : Label sensor.

A08

% LEL

- 3 : Indication (s) alarm (s) active (s).
- 4 : Value of the measure.
- 5 : Gas Name.
- 6 : Measuring range.
- 7 : Unit of measurement.
- 8 : State operation of the sensor.
- 9 : Hardware details of the sensor selected
- 10 :Software coordinates sensor

8

Details

14

15 16

A15

£ 16

Details 3 Details 4 QuickTrend

4 : Select view mode

Choice of display (position hardware or software channels) on the front view and supervised choice of Central MX-62 to visualize

The software ranking is the same as the central front of the MX-62. The hardware classification corresponds to the order of the connections of the sensors on the modules of the station acquisitions selected

Exemple :

Here, sensors are placed in the central software and MX-62 is visualized Central 1.

EMENT					
Software					
RALES					
123456					

MX-62 CHOICE (up to 16)

5 : Alarm Banner

View of alarms

6: Navigation Menu





7 : Actual Date and Time.

Show date and time of the computer

QuickTrend Fonction:

You can view up to 64 channels simultaneously.

Left clicking on a channel shows a selection window, then choose QuickTrend to see the corresponding curve. It is not possible to unselect a path in the active QuickTrend (The QuickTrend resets each time).



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LOGGING CONFIGURATION (recordings)

5				Commandes et status
		2 (en secondes)	AUCUNE	Fixer la Sofiguration
Voie 1 Varchiver	Voie 17 Marchiver	Voie 33 Marchiver	Voie 49 Marchiver	Ven prillage
Voie 2 Marchiver	Voie 18 Varchiver	Voie 34 🔳 Archiver	Voie 50 Marchiver	
Voie 3 Marchiver	Voie 19 Marchiver	Voie 35 🗖 Archiver	Voie 51 Marchiver	
Voie 4 Marchiver	Voie 20 Marchiver	Voie 36 🖪 Archiver	Voie 52 Marchiver	Périodicité des sauvegare
Voie 5 Varchiver	Voie 21 Archiver	Voie 37 Marchiver	Voie 53 Marchiver	(En 6 ((s))
Voie 6 Marchiver	Voie 22 Varchiver	Voie 38 Varchiver	Voie 54 Marchiver	
Voie 7 Varchiver	Voie 23 Archiver	Voie 39 Marchiver	Voie 55 Marchiver	
Voie 8 Marchiver	Voie 24 Archiver	Voie 40 Archiver	Voie 56 🗆 Archiver	Temps de rémanence des données vans le serv
Voie 9 Marchiver	Voie 25 Marchive	Voie 41 Marchiver	Voie 57 Marchiver	(En j/ur(s))
Voie 10 Marchiver	Voie 26 Marchiver	Voie 42 Marchiver	Voie 58 Marchiver	⇒ 360
Voie 11 Marchiver	Voie 27 Marchiver	Voie 43 Marchiver	Voie 59 Marchiver	
Vole 12 Marchiver		Vole 44 MArchiver		
Vole 13 Marchiver	Vole 29 Marchiver	Vole 45 MArchiver	Vole 61 MArchiver	
Vole 14 Marchiver	Vole 30 MArchiver	Vole 46 Marchiver	Vole 62 MArchiver	
	Vole 31 MArchiver	Vole 47 MArchiver	Vole 63 MArchiver	
Date Heure Etat Acquitté	Message CENTRALE#1 Channel08 SEGNALE TAGLIO	LABEL : description 62 (8-6)		
01/08/2007 14:14:31 ALARM N (01/08/2007 14:14:29 ALARM N (CENTRALE#1 : Channel03 : ALLARME2 - LABEI CENTRALE#1 : Channel03 : ALLARME1 - LABEI	. : description 62 (8-6) . : description 62 (8-6)		
01/08/2007 14:14:15 ALARM N I 01/08/2007 14:14:07 ALARM N I	CENTRALEMI Configurazione in corso del te PASSERELLE1 : COMMUNICATION : lecture de	sto degli allarmi s mesures		
01/08/2007 14:14:07 ALARM N 1 01/08/2007 14:14:07 ALARM N 1	CENTRALEM Voie 32 SIGNAL COUPE CENTRALEM : Voie 32 : ALARMES			

1 : Selecting the number of the central 'logger' (record).

2 : Choice of sampling time (1 to 3600 seconds) common to all channels selected for recording measurements.

3 : Quick selection of groups of channels:

Selection of all channels Deselect all the tracks. Selection by column. Deselect by column.





4: Viewing selectable channels (configured in the Central MX-62 sensor if in normal operation) and select the unit to record channels.

Track Selectable



- 5 : Choosing a location that will store the backup files Record.
- 6: Frequency (by day (s)) the creation of backup files (Csv file).

7: Persistence time (in day (s)) of data stored in the database.

8 : Button to validate the configuration selected for the Central (A complete setup by Central). Configurations can be changed any time.

9 : Navigation menu.

10 : Banner alarm.

11 : Lock/unlock access (see page 6)

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RECORDING LOGGINGS VISUALIZATION



1: Legends of the curves shown.

2: Selection of MX-62 set in the supervision.

3: Buttons display measures recorded for inland validated in the database of the plant selected (see page 7 setup screen recordings).

- The validation of a way to see passed the background color of the red button

- The selection of non-registered (see page 7) are not displayed.

- There can be a maximum of 8 channels displayed simultaneously.

Note :

- At the opening of the first page or after a re-recording (see page 7), a procedure is activated to update the selection of channels to view.

The order of selection of channels is the display of the front of the MX-62 ..

4: Information appears during the passage of the mouse pointer over a button for selecting a track and are the description and the name of the gas corresponding to it.

5: Navigation menu.

6: Time and date.

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REAL TIME VALUES VISUALIZATION



1: Legends of the curves shown.

2: Selection of MX-62 set in the supervision.

3: Buttons display measures for inland validated in the database of the plant selected

- Validation of a channel to see passed the background color of the red button.

- The selection of non-validated or disabled in the plant are not displayed.

- There can be a maximum of 8 channels displayed simultaneously.

Note :

- The order of selection of channels is the display of the front of the MX-62 ..

4: Information appears during the passage of the mouse pointer over a button for selecting a track and are the description and the name of the gas corresponding to it.

5: Navigation menu.

6: Time and date.

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ALARMS SCREEN:

	JLDHAN	1			
Date	Heure	Etat	Acqui	tté Message	
06/08/2007	14:01:23	ALARM	N	CENTRALE#1 : Voie35 : ALARME1 - LABEL : description 30 (4-6)	
06/08/2007	14:01:22	ALARM	N	CENTRALE#1 : Voie35 : UNDERFLOW - LABEL : description 30 (4-6)	
06/08/2007	14:01:15	ALARM	N	CENTRALE#1 : Voie34 : SIGNAL COUPE - LABEL : description 31 (4-7)	
06/08/2007	14:01:10	ALARM		CENTRALE#1 : Voie34 : ALARME1 - LABEL : description 31 (4-7)	
06/08/2007	14:01:09	ALARM	N	CENTRALE#1 : Voie34 : UNDERFLOW - LABEL : description 31 (4-7)	
06/08/2007	14:01:01	ALARM	N	CENTRALE#1 : Voie33 : SIGNAL COUPE - LABEL : description 32 (4-8)	
06/08/2007	14:00:58	ALARM	N	CENTRALE#1 : Voie33 : ALARME3 - LABEL : description 32 (4-8)	
06/08/2007	14:00:54	ALARM	N	CENTRALE#1 : Voie33 : UNDERFLOW - LABEL : description 32 (4-8)	
06/08/2007	14:00:48	ALARM	N	CENTRALE#1 : Voie32 : SIGNAL COUPE - LABEL : description 33 (5-1)	
06/08/2007	14:00:45	ALARM	N	CENTRALE#1 : Voie32 : ALARME3 - LABEL : description 33 (5-1)	
06/08/2007	14:00:43	ALARM	N	CENTRALE#1 : Voie32 : ALARME1 - LABEL : description 33 (5-1)	
06/08/2007	14:00:42	ALARM	N	CENTRALE#1 : Voie32 : UNDERFLOW - LABEL : description 33 (5-1)	
J6/08/2007	14:00:34	ALARM	N	CENTRALE#1 : Voie31 : SIGNAL COUPE - LABEL : description 34 (5-2)	
06/08/2007	14:00:27	ALARM	N	CENTRALE#1: Voie31: UNDERFLOW - LABEL: description 34 (5-2)	
08/2007	14:00:20	ALARM	N	CENTRALE#1: VOIE30: SIGNAL COUPE - LABEL: description 35 (5-3)	
06/08/2007	14:00:15	ALARM	N	CENTRALE#1: VOIE30 : ALAKMET - LABEL : description 35 (5-3)	
06/08/2007	14:00:14	ALARM	N	CENTRALE#1: VOIE30: UNDERFLOW - LABEL: description 35 (5-3)	
08/08/2007	14:00:06		N	CENTRALE#1: Voie29: SIGNAL COUPE - LABEL: description 36 (54)	
06/06/2007	13:39:39		M	CENTRALE#1: Voie29: ONDERFLOW - LADEL: description 36 (54)	
06/08/2007	13:39:31	ALARM	N	CENTRALE#1: Voie20: SIGNA COUPE - LABEL: description 37 (5-5)	
06/08/2007	12.50.26		M	CENTRALLAT: Vole27 : SIGNAL COURE AREL : description 39 (5.6)	
16/08/2007	12-50-22		N	CENTRALE#1 : Voie27 : ALADME3 ABEL : description 38 (56)	
16/08/2007	13-59-32		N	CENTRALE#1 · Voie27 · ALARMES · LABEL · description 38 (5.6)	
16/08/2007	13-59-30	ALARM	N	CENTRALE#1 : Voie27 : ALARME1 , LAREL : description 38 (5.5)	
06/08/2007	13:59:29	ALARM	N	CENTRALE#1 : Voie27 : UNDERFLOW - LABEL : description 38 (5-6)	
06/08/2007	13:59:22	ALARM	N	CENTRALE#1 : Voie26 : SIGNAL COUPE - LABEL : description 39 (5-7)	
06/08/2007	13:59:19	ALARM	N	CENTRALE#1 : Voie26 : ALARME3 - LABEL : description 39 (5-7)	
06/08/2007	13:59:18	ALARM		CENTRALE#1 : Voie26 : ALARME2 - LABEL : description 39 (5-7)	
06/08/2007	13:59:17	ALARM		CENTRALE#1 : Voie26 : ALARME1 - LABEL : description 39 (5-7)	
06/08/2007	13:59:15	ALARM	N	CENTRALE#1 : Voie26 : UNDERFLOW - LABEL : description 39 (5-7)	
06/08/2007	13:59:08	ALARM	Ν	CENTRALE#1 : Voie25 : SIGNAL COUPE - LABEL : description 40 (5-8)	
06/08/2007	13:59:04	ALARM	N	CENTRALE#1 : Voie25 : ALARME3 - LABEL : description 40 (5-8)	
06/08/2007	13:59:00	ALARM	N	CENTRALE#1 : Voie25 : UNDERFLOW - LABEL : description 40 (5-8)	
06/08/2007	13:58:53	ALARM	N	CENTRALE#1 : Voie24 : SIGNAL COUPE - LABEL : description 41 (6-1)	
J6/08/2007	13:58:51	ALARM	N	CENTRALE#1 : Voie24 : OVERFLOW - LABEL : description 41 (6-1)	
J6/08/2007	13:58:49	ALARM	N	CENTRALE#1 : Voie24 : ALARME2 - LABEL : description 41 (6-1)	
06/08/2007	13:58:47	ALARM	N	CENTRALE#1: Voie24: UNDERFLOW - LABEL: description 41 (6-1)	
10/08/2007	13:58:40	ALARM	N	CENTRALE#1: Vole23: SIGNAL COUPE - LABEL: description 42 (6-2)	
16/08/2007	13:58:38	ALARM		CENTRALE#1: VOIE23: UVERFLOW - LABEL: description 42 (6-2)	
08/08/2007	13:38:34	ALARM	N	CENTRALE#1: VOIE23: ALARMET - LABEL: description 42 (6-2)	
06/08/2007	13:38:33		N	CENTRALE#1: VOIE23: UNDERFLOW - LABEL: description 42 (6-2)	
10/00/2007	13:30:20	ALARM		CLATRALL T. V01022 : SIGNAL COUPE - LADEL : 005000000 43 (6-3)	
Voir la pile	Acquitter Acqu	litter tout	facér		
					14:01:27 - 06/08/2
	2				
	the second se				

1 : Alarm Banner.

2: Buttons:

- See detail : View the details of the point in alarm on the selected line.

-Acknowledge : Acknowledge of the alarm at the level of supervision (no action on the plant).

-Acknowledge all : same action as Acknowledge, but for all alarms.

-Delete: deletes a line in the alarm banner.

3: Navigation menu.

4: Time and date.

5 : Stop or Start Printer Alarm (if validate in Administration Screen). Note :

- The text messages of alarms is updated at each change of days

Alarms Colors codes :

Each type of alarms is differentiated by a color code .

<u>Alarm 1, 2, 3, Excess of signal - > 20 mA (overflow)</u> Writing: White Background: Red

<u>Communication (see following page)</u> Writing: Red Melts: White

Way in defect, insufficient Signal - < 4 mA (underflow) Writing: Black Background: Orange

Error of communication between the sensor and station MX-62, Line signal in Short-circuit, Service mode: Alarm inhibited Service mode: Test of LEDs (LED Test), Service mode: Way in calibration (calibration), Service mode: Way in test (operational test)

Writing: Black Background: Rose

<u>Line cut signal</u> Writing: Black Background: Fushia

Way Unactive (channel desactivated) Writing: White Background: Crimson To avoid any use of erroneous data, Visual 62 make a checking uninterrupted of the communication state between each components of the supervision and informed the user by the messages according to:

NO CENTRAL ANSWER MX62

The physical connection between the station and the Gate-62 is cut or the station is on fault. The indication is sent by the gate-62, after a lost of communication over 5 minutes, time necessary for loading a modification of MX62 station

DEFAULT OF READING NAME STATION DEFAULT OF READING NUMBERS CHART DEFAULT OF READING CONFIGURATION

During the reading of the configuration of station by the Gate-62, a parameter cannot be read.

DEFAULT OF READING MEASURES

The Gate-62 cannot read the values of measurement.

MIMIC ANIMATIONS

Each zone represents a synopsis of supervision with the implementation of its sensors, they each have an animation corresponding to the mode of operation and / or a statement of their alarms.

Animations sensors (channels) / matches colors.



A mouse click on the sensor will show an information window of it. (Click again on the sensor to close this window).



RS485 CONNECTION GATE62

Pin Assignments for Port 2

Port 2 is an RS-485 port with a 15-pin female D-sub connector. This can be attached directly to an RS-485 to RS-232 adapter.

Pin	Signal	Direction	Function
1	SHLD		Cable Shield Drain wire connection
2, 3, 4	n/c		
5	P5V	Output	+5.1VDC to power external devices (100mA max.)
6	RTSA	Output	Request to Send (A) output
7	GND		0V/GND reference signal
8	CTSB'	Input	Clear to Send (B) input
9	RT		Resistor Termination (120 ohm) for RDA'
10	RDA'	Input	Receive Data (A)
11	RDB'	Input	Receive Data (B)
12	SDA	Output	Transmit Data (A) output
13	SDB	Output	Transmit Data (B) output
14	RTSB	Output	Request to Send (B) output
15	CTSA'	Input	Clear to Send (A) input
Shell	SHLD		Cable Shield wire connection / 100% (Continuous) shielding cable shield connection

RS-485 Point to Point Connection with Handshaking

In point-to-point configuration, two devices are connected to the same communication line. For RS-485, the maximum cable length is 1200 meters (4000feet). Modems can be used for longer distances.



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SERIE MOXA CARD CP132 CONNECTIONS

Card with 2 serial ports RS422/485

RS422 connecting (SNP GE protocol)



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STATE LEDS GATE 62 (GATE 62ETH)



Central reconfiguration:

The bridge reads the configuration of the station if this one is disconnected with it during more than 5 minutes or with the handing-over under tension of the bridge. It is advised after a reconfiguration of the station and to have restored the connector industry bridge station, each powering the bridge then to relight it, thus re-initialize its program which will charge the new configuration of the station.