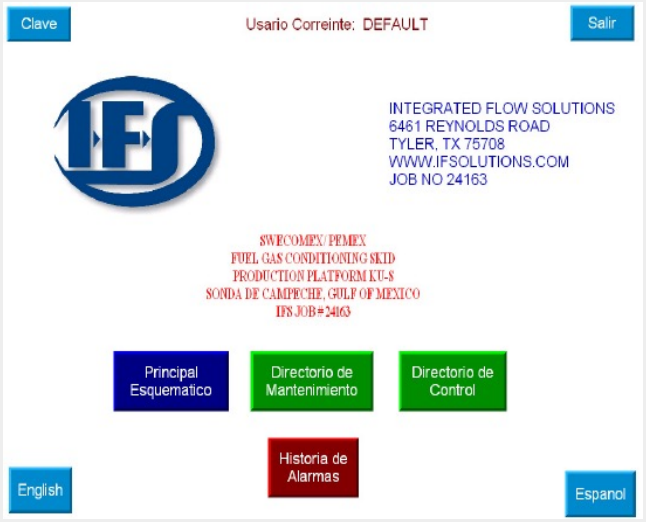
Human Machine Interface Training Program



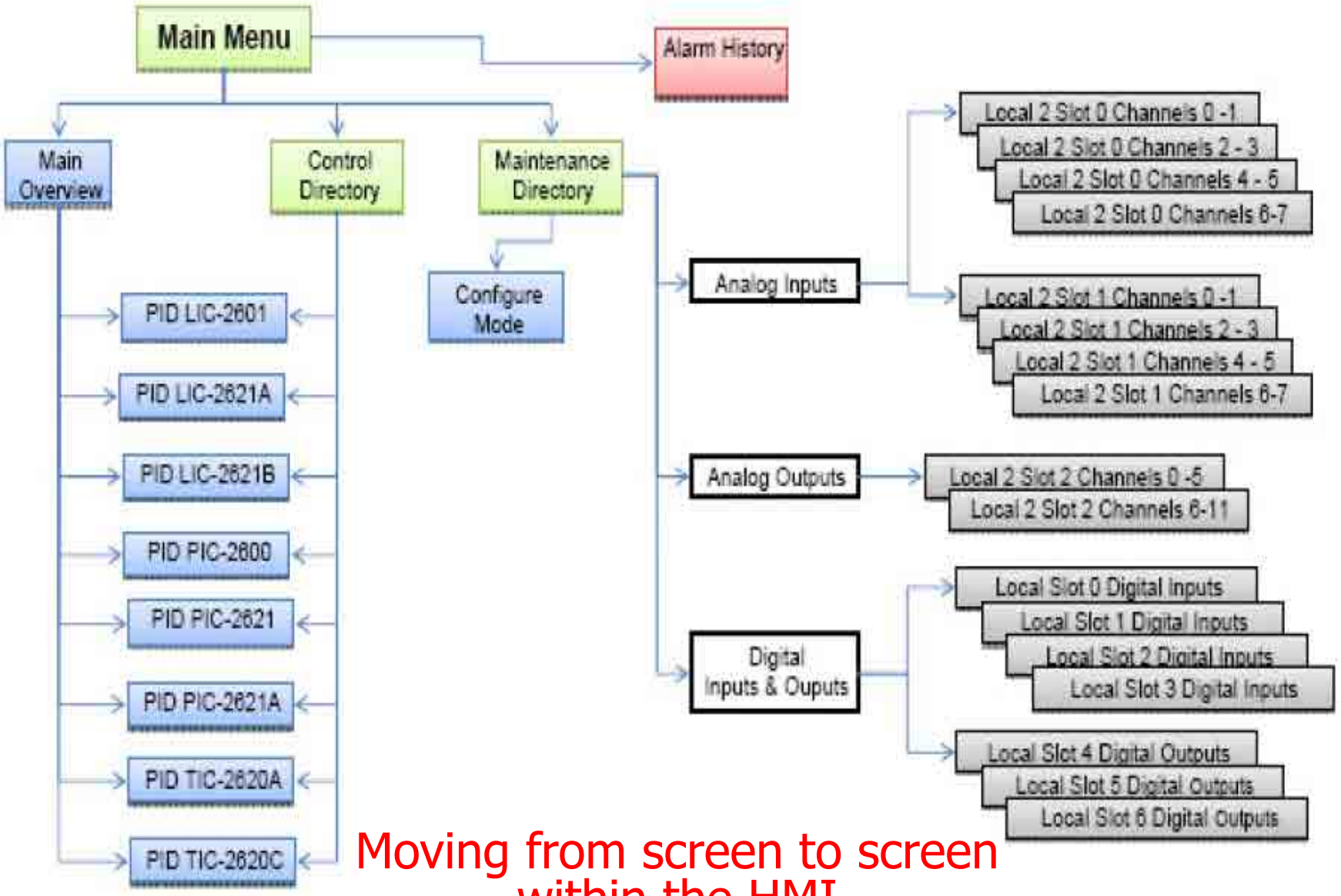
Fuel Gas Conditioning Systems

For:
Pemex Offshore Fuel Gas Conditioning System and HMI
Pemex KU-S Production Platform
IFS Job # 24163

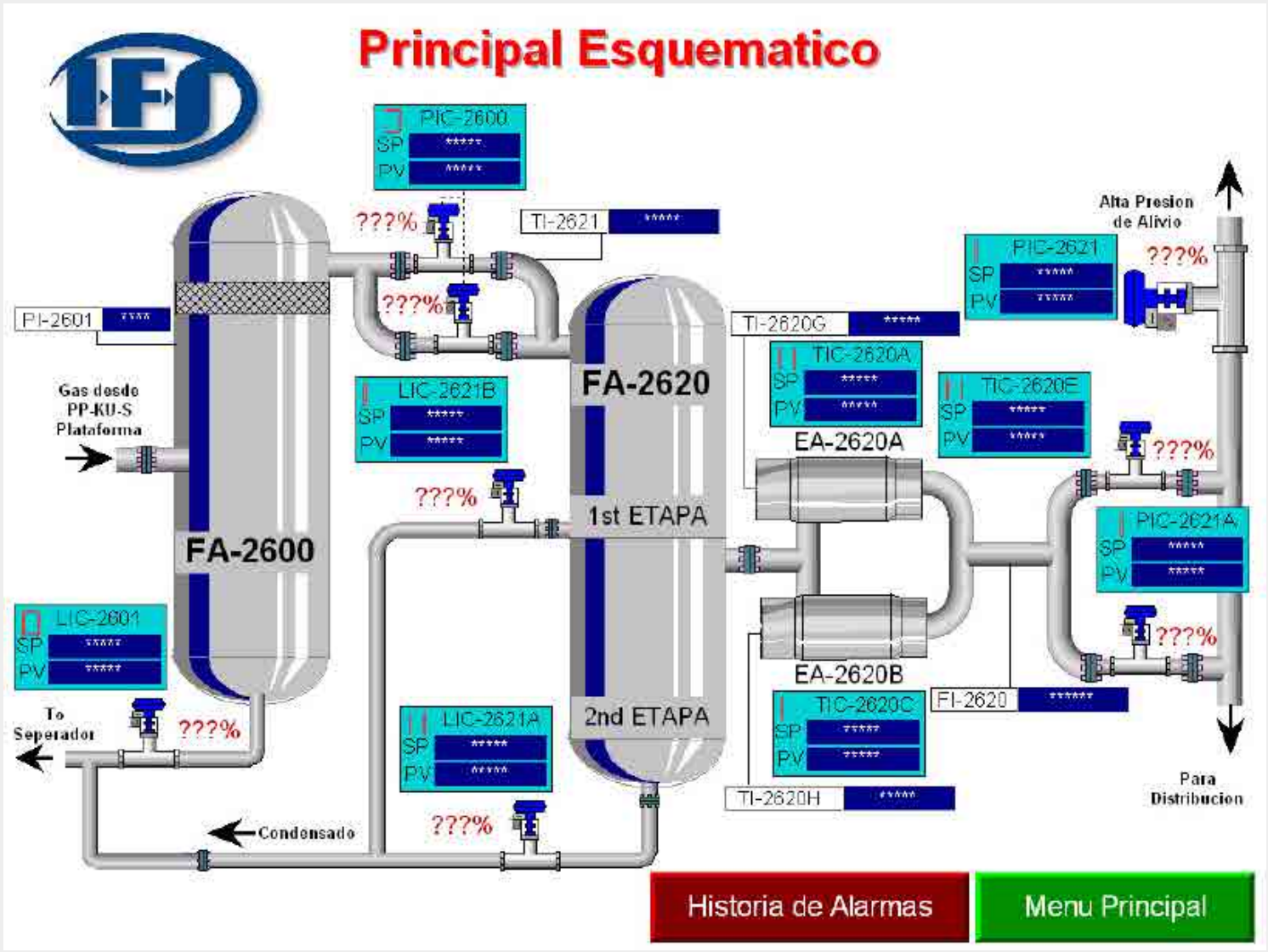
- 1. Powering up the HMI and going on-line
- 2. Switching from English to Spanish
- 3. Moving from screen to screen within the HMI
- 4. Overview Screen
- 5. Monitoring Digital Inputs
- 6. Monitoring Digital Outputs
- 7. Monitoring Analog Inputs
- 8. Monitoring Analog Outputs
- 9. Monitoring and Manipulating PID Controls
- 10. Alarms and Alarm History
- 11. Logging off and Powering Down the HMI

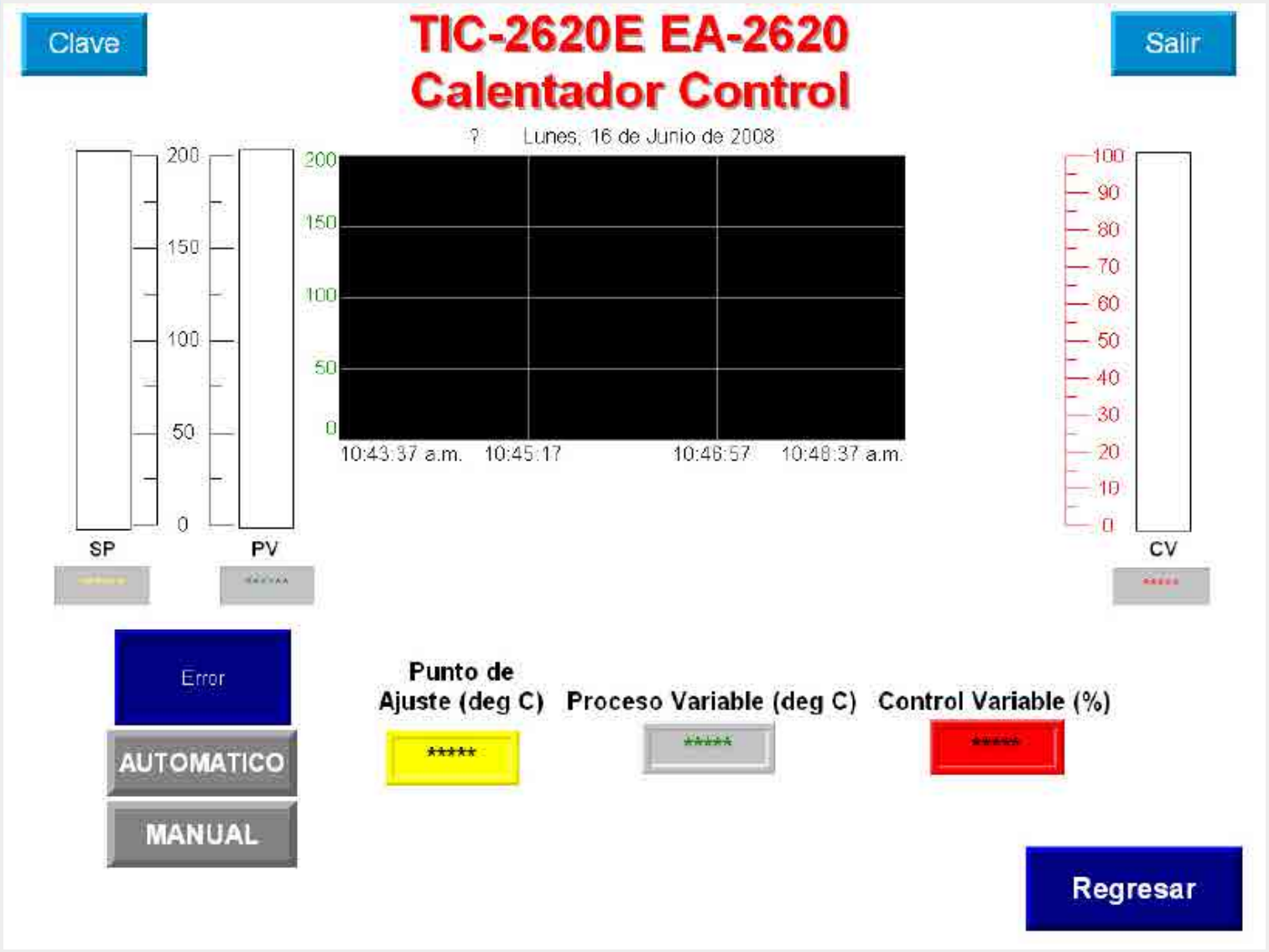
Powering up the HMI and going on-line

Switching from English to Spanish

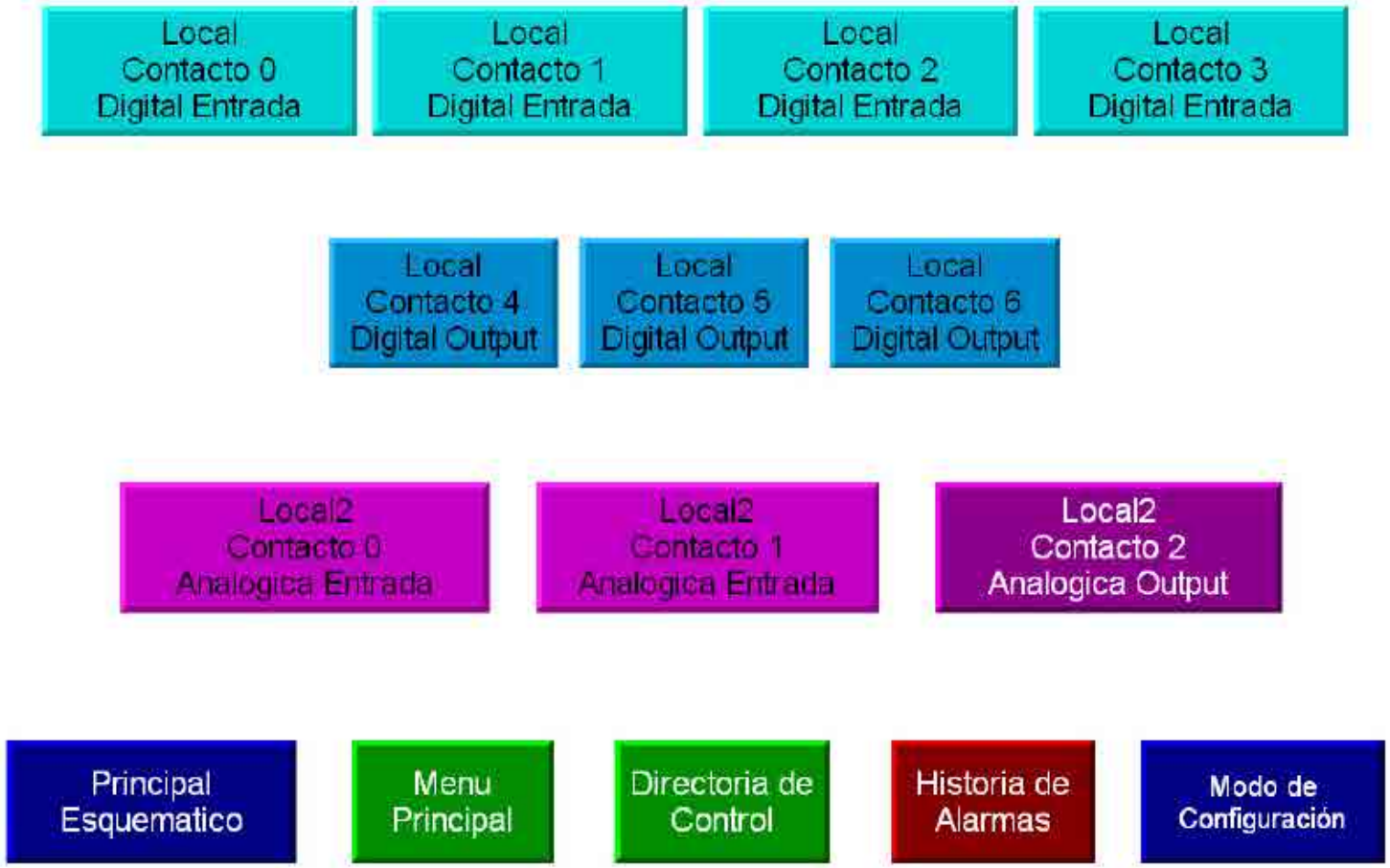


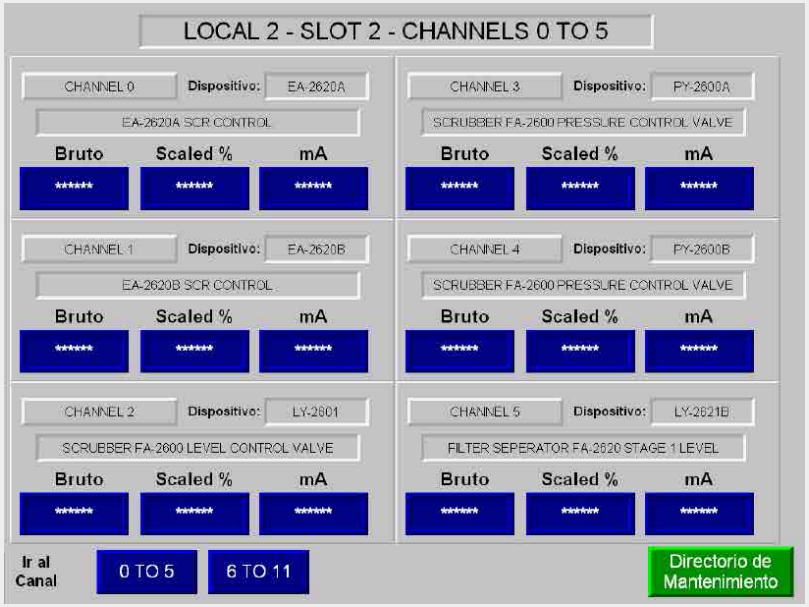
Moving from screen to screen within the HMI

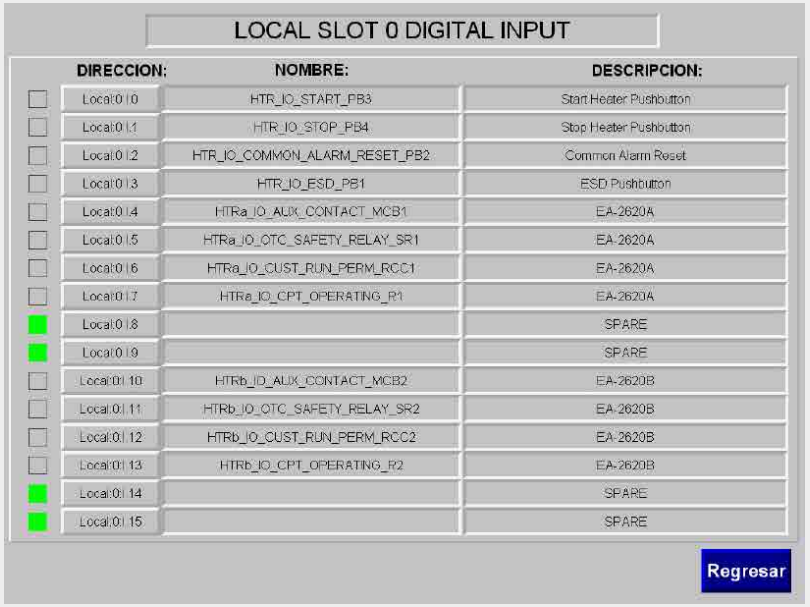

Principal Esquematico
PIC-2600
SP
PV
TI-2621
???%
PI-2601
Gas desde
PP-KU-S
Plataforma
LIC-2621B
FA-2620
1st ETAPA
2nd ETAPA
FA-2600
LIC-2601
To
Seperador
LIC-2621A
Condensado
TI-2620G
TIC-2620A
EA-2620A
TIC-2620E
PIC-2621
Alta Presion
de Alivio
PIC-2621A
EA-2620B
TIC-2620C
FI-2620
TI-2620H
Para
Distribucion
Historia de Alarmas
Menu Principal


Clave
TIC-2620E EA-2620
Calentador Control
Salir
? Lunes, 16 de Junio de 2008
200
150
100
50
0
10:43:37 a.m.
10:45:17
10:46:57
10:48:37 a.m.
SP
PV
CV
Error
AUTOMATICO
MANUAL
Punto de Ajuste (deg C)
Proceso Variable (deg C)
Control Variable (%)
*****
Regresar

Directorio de Mantenimiento




LOCAL 2 - SLOT 2 - CHANNELS 0 TO 5
CHANNEL 0
Dispositivo:
EA-2620A
EA-2620A SCR CONTROL
Bruto
Scaled %
mA
******
CHANNEL 3
Dispositivo:
PY-2600A
SCRUBBER FA-2600 PRESSURE CONTROL VALVE
Bruto
Scaled %
mA
******
CHANNEL 1
Dispositivo:
EA-2620B
EA-2620B SCR CONTROL
Bruto
Scaled %
mA
******
CHANNEL 4
Dispositivo:
PY-2600B
SCRUBBER FA-2600 PRESSURE CONTROL VALVE
Bruto
Scaled %
mA
******
CHANNEL 2
Dispositivo:
LY-2601
SCRUBBER FA-2600 LEVEL CONTROL VALVE
Bruto
Scaled %
mA
******
CHANNEL 5
Dispositivo:
LY-2621B
FILTER SEPERATOR FA-2620 STAGE 1 LEVEL
Bruto
Scaled %
mA
******
Ir al Canal
0 TO 5
6 TO 11
Directorio de Mantenimiento


LOCAL SLOT 0 DIGITAL INPUT
DIRECCION:
NOMBRE:
DESCRIPCION:
Local:0:0
HTR_IO_START_PB3
Start Heater Pushbutton
Local:0:1
HTR_IO_STOP_PB4
Stop Heater Pushbutton
Local:0:2
HTR_IO_COMMON_ALARM_RESET_PB2
Common Alarm Reset
Local:0:3
HTR_IO_ESD_PB1
ESD Pushbutton
Local:0:4
HTRa_IO_AUX_CONTACT_MCB1
EA-2620A
Local:0:5
HTRa_IO_OTC_SAFETY_RELAY_SR1
EA-2620A
Local:0:6
HTRa_IO_CUST_RUN_PERM_RCC1
EA-2620A
Local:0:7
HTRa_IO_CPT_OPERATING_R1
EA-2620A
Local:0:8
SPARE
Local:0:9
SPARE
Local:0:10
HTRb_IO_AUX_CONTACT_MCB2
EA-2620B
Local:0:11
HTRb_IO_OTC_SAFETY_RELAY_SR2
EA-2620B
Local:0:12
HTRb_IO_CUST_RUN_PERM_RCC2
EA-2620B
Local:0:13
HTRb_IO_CPT_OPERATING_R2
EA-2620B
Local:0:14
SPARE
Local:0:15
SPARE
Regresar

Directorio de Control

FA-2600
Alta Presion
Depurador Vertical

Nivel

Presion

FA-2620
Baja Presion
Filtro Separador

2nd Etapa Nivel

1st Etapa Nivel

EA-2620A/B
Combustible Gas
Electric Calentador

EA -2620A Temperatura

EA -2620B Temperatura

EA -2620A/B
Outlet
Temperatura

L-2600
Combustible Gas
Sistema due Condiciona

Presion de Alivio

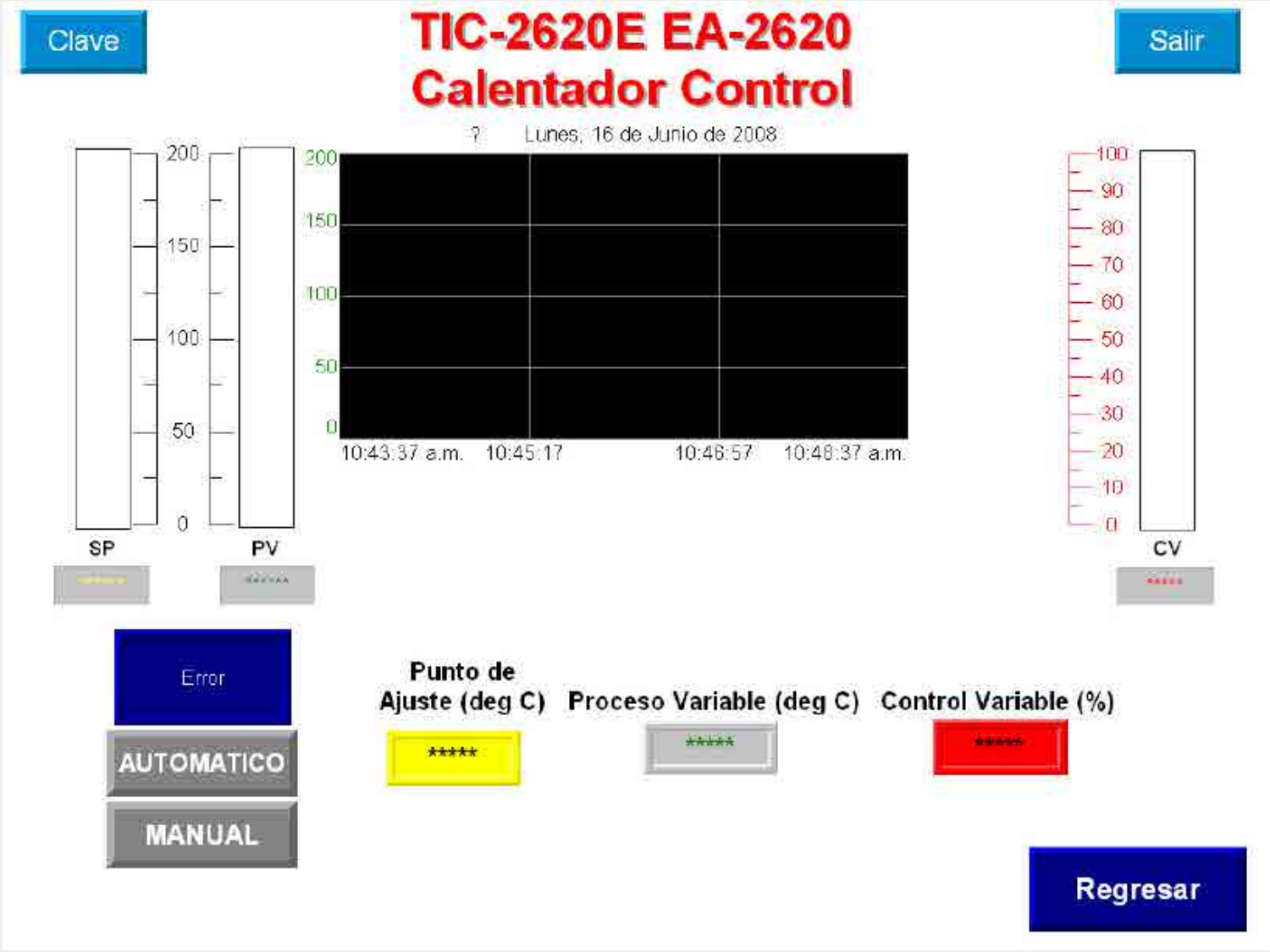
Presion de Descarga

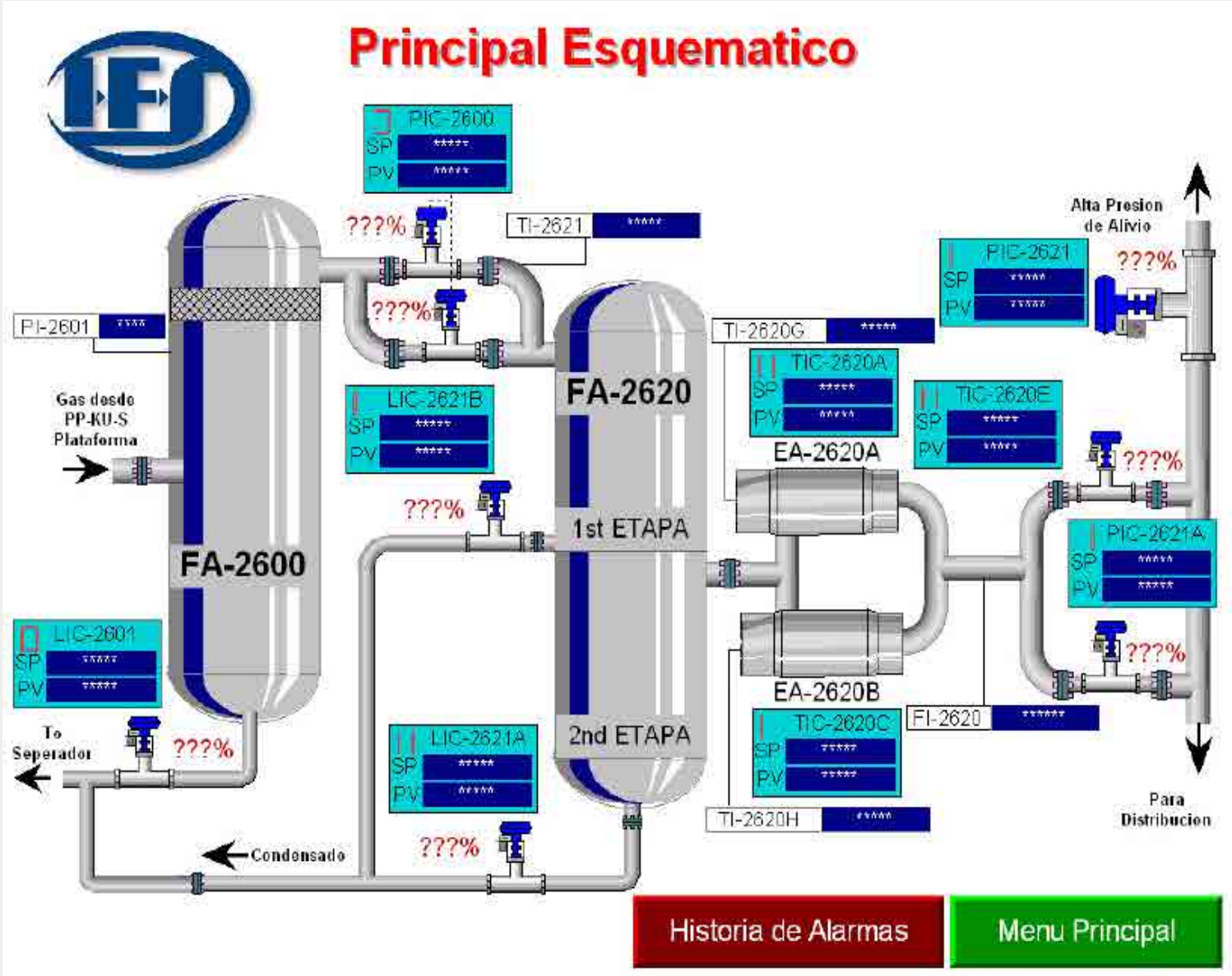
Principal Esquematico

Menu Principal

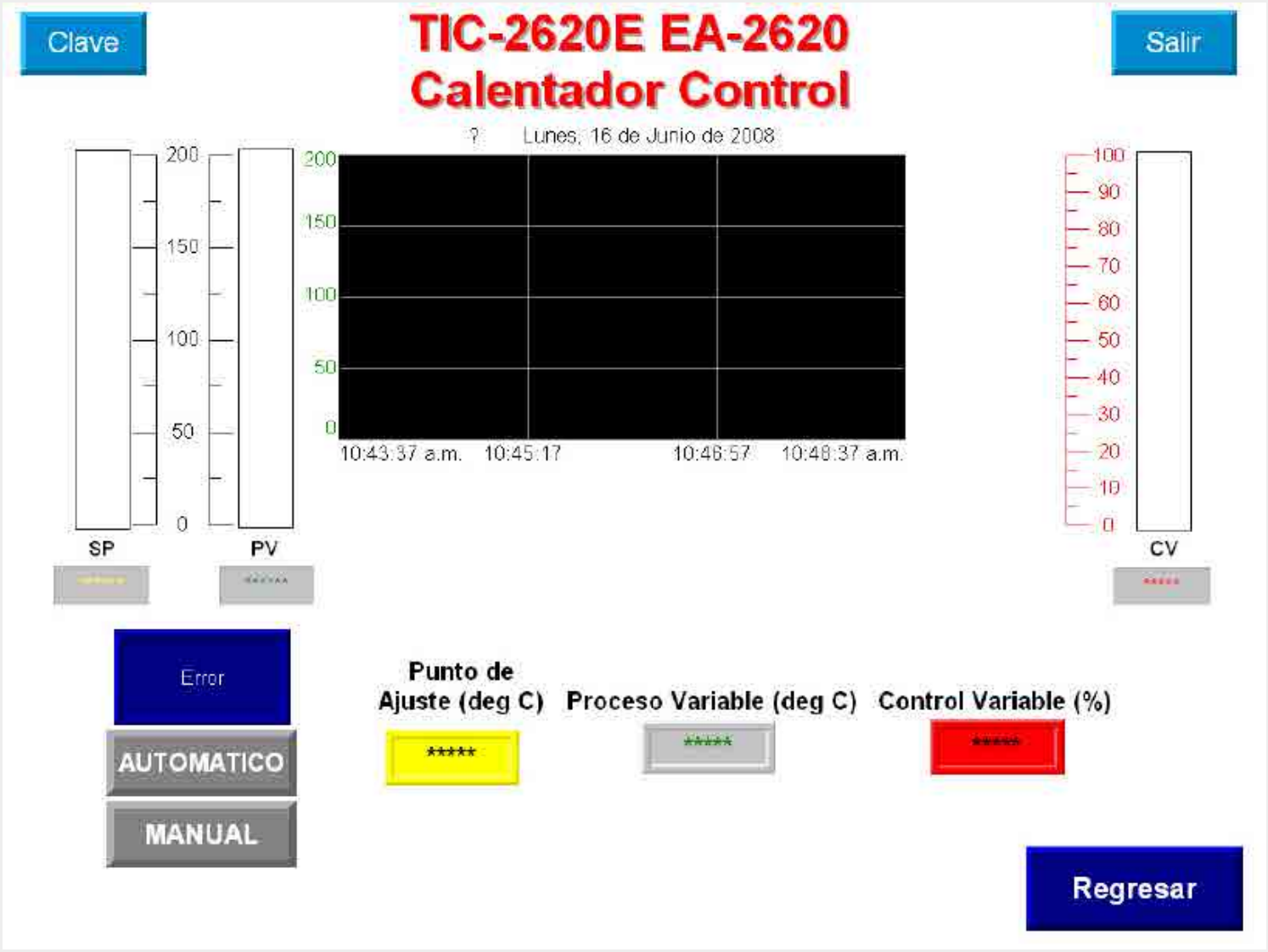
Directorio de Mantenimiento

Historia de Alarmas

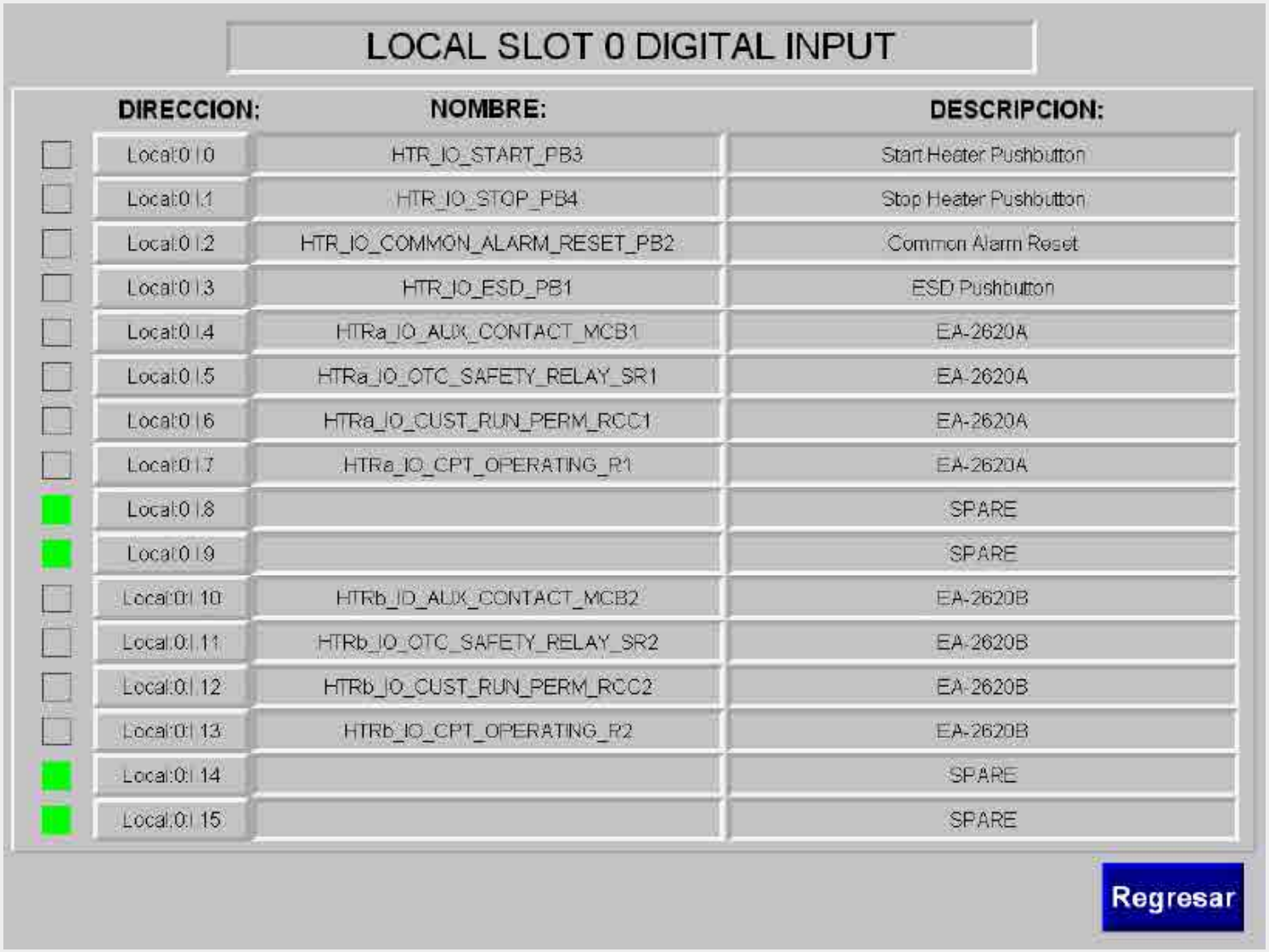

Clave
TIC-2620E EA-2620
Calentador Control
Salir
?
Lunes, 16 de Junio de 2008
200
150
100
50
0
SP
PV
10:43:37 a.m.
10:45:17
10:46:57
10:48:37 a.m.
100
90
80
70
60
50
40
30
20
10
0
CV
Error
AUTOMATICO
MANUAL
Punto de Ajuste (deg C)
Proceso Variable (deg C)
Control Variable (%)
*****
Regresar



Overview Screen


Clave
TIC-2620E EA-2620
Calentador Control
Salir
? Lunes, 16 de Junio de 2008
200
150
100
50
0
10:43:37 a.m.
10:45:17
10:46:57
10:48:37 a.m.
SP
PV
CV
Error
AUTOMATICO
MANUAL
Punto de Ajuste (deg C)
Proceso Variable (deg C)
Control Variable (%)
*****
Regresar

Monitoring Digital Inputs

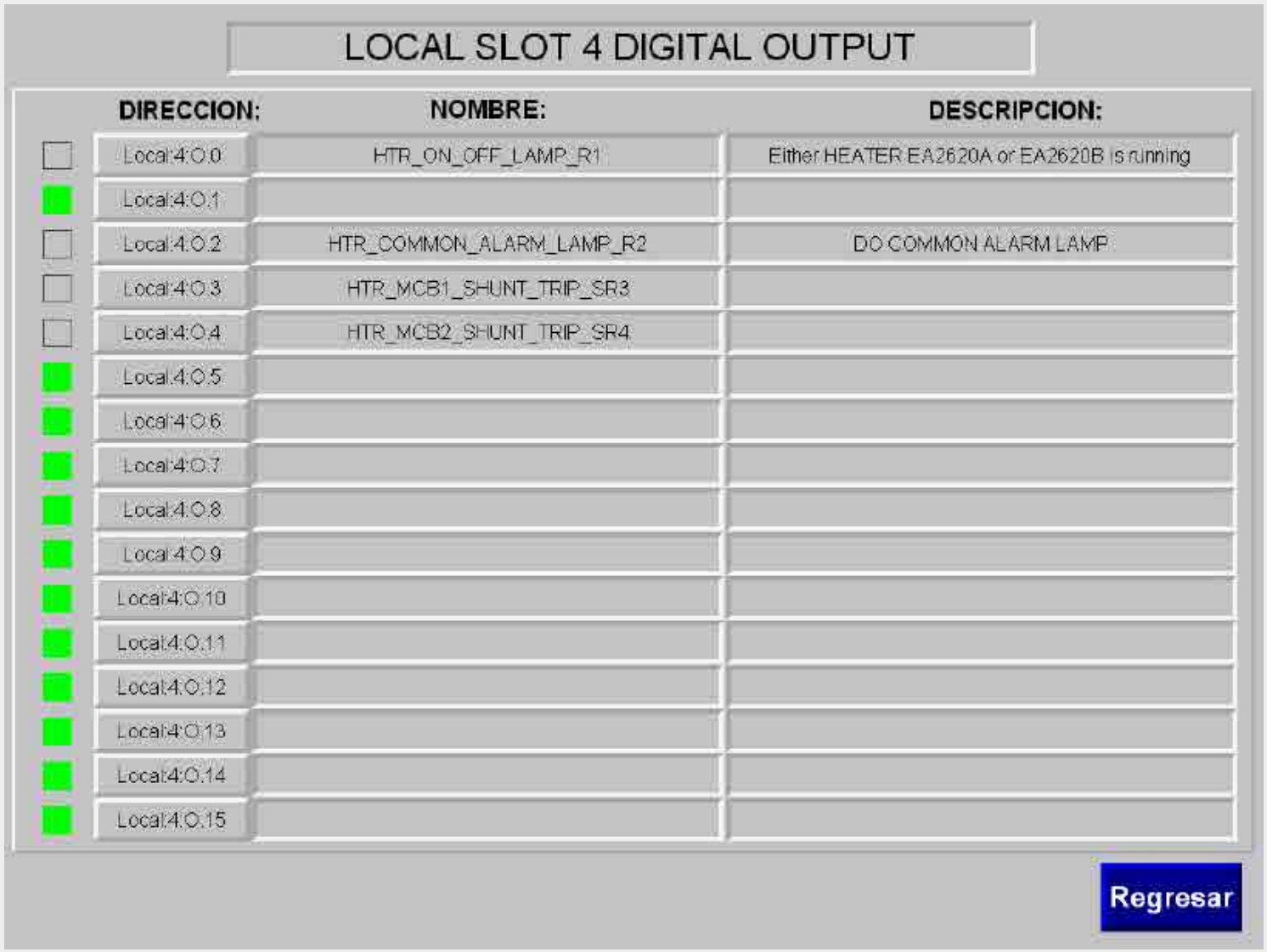


LOCAL SLOT 0 DIGITAL INPUT

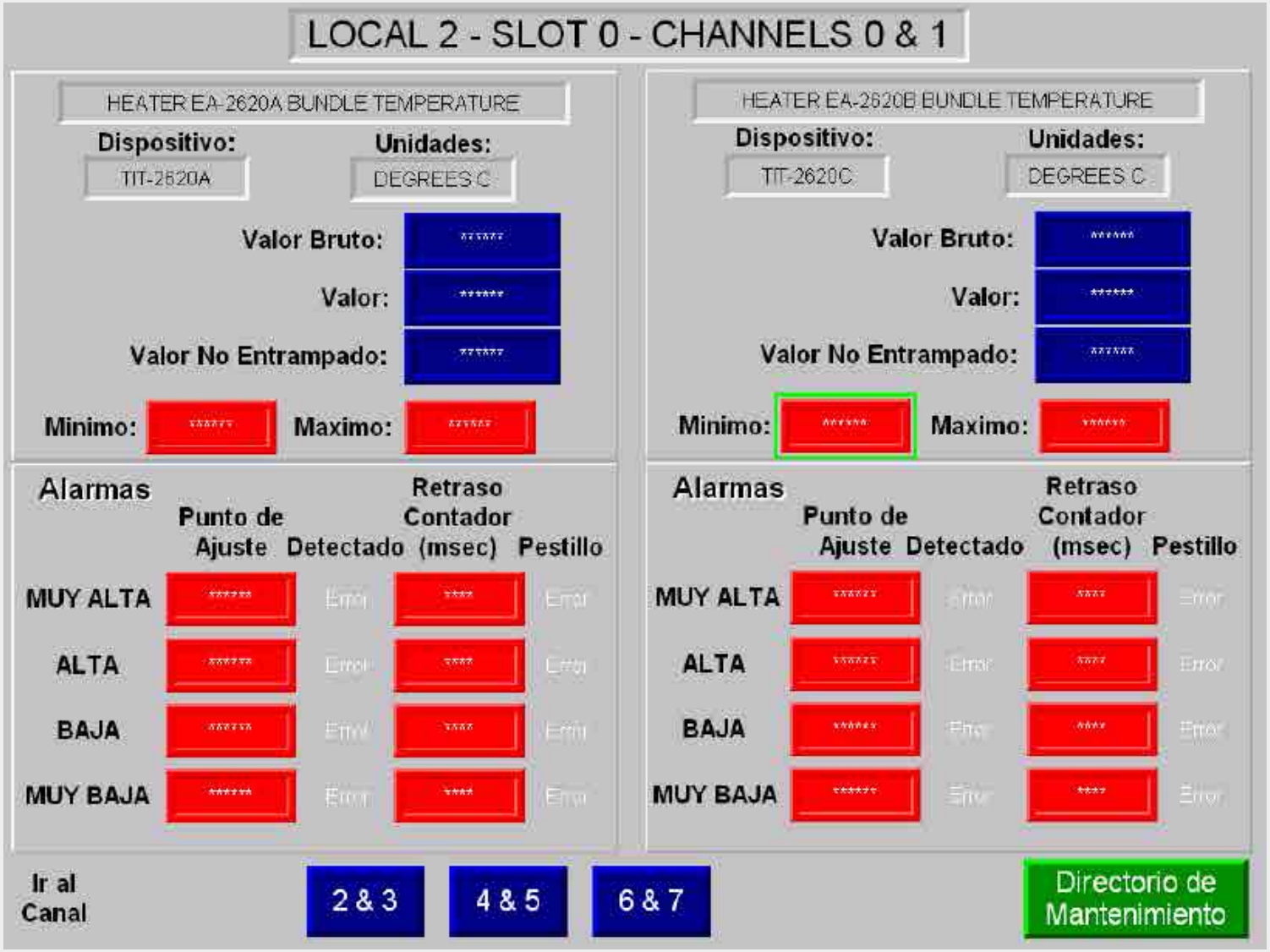
	DIRECCION:	NOMBRE:	DESCRIPCION:
☐	Local:0 I.0	HTR_IO_START_PB3	Start Heater Pushbutton
☐	Local:0 I.1	HTR_IO_STOP_PB4	Stop Heater Pushbutton
☐	Local:0 I.2	HTR_IO_COMMON_ALARM_RESET_PB2	Common Alarm Reset
☐	Local:0 I.3	HTR_IO_ESD_PB1	ESD Pushbutton
☐	Local:0 I.4	HTRa_IO_AUX_CONTACT_MCB1	EA-2620A
☐	Local:0 I.5	HTRa_IO_OTC_SAFETY_RELAY_SR1	EA-2620A
☐	Local:0 I.6	HTRa_IO_CUST_RUN_PERM_RCC1	EA-2620A
☐	Local:0 I.7	HTRa_IO_CPT_OPERATING_R1	EA-2620A
■	Local:0 I.8		SPARE
■	Local:0 I.9		SPARE
☐	Local:0 I.10	HTRb_IO_AUX_CONTACT_MCB2	EA-2620B
☐	Local:0 I.11	HTRb_IO_OTC_SAFETY_RELAY_SR2	EA-2620B
☐	Local:0 I.12	HTRb_IO_CUST_RUN_PERM_RCC2	EA-2620B
☐	Local:0 I.13	HTRb_IO_CPT_OPERATING_R2	EA-2620B
■	Local:0 I.14		SPARE
■	Local:0 I.15		SPARE

Regresar

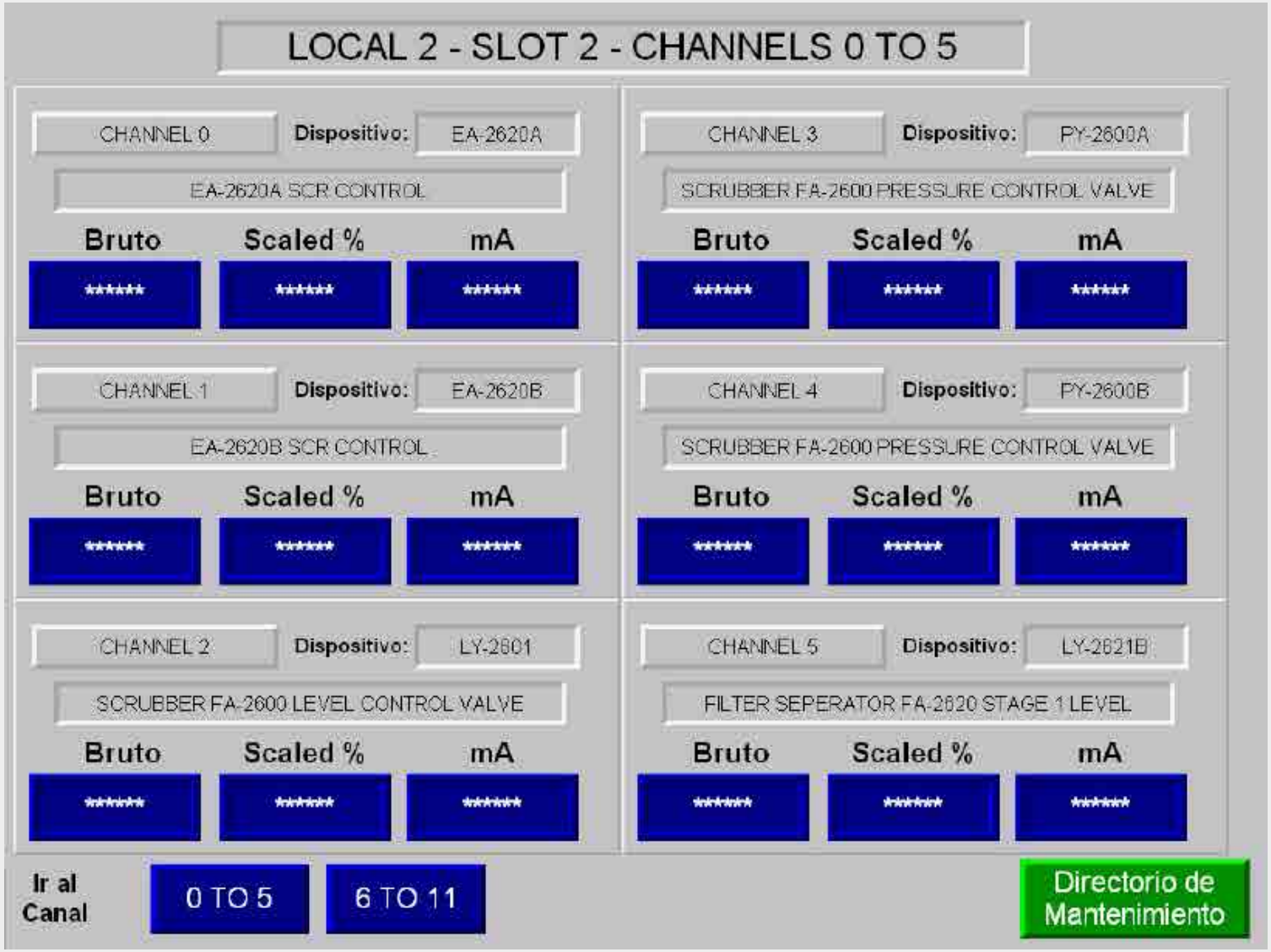
Monitoring Digital Outputs

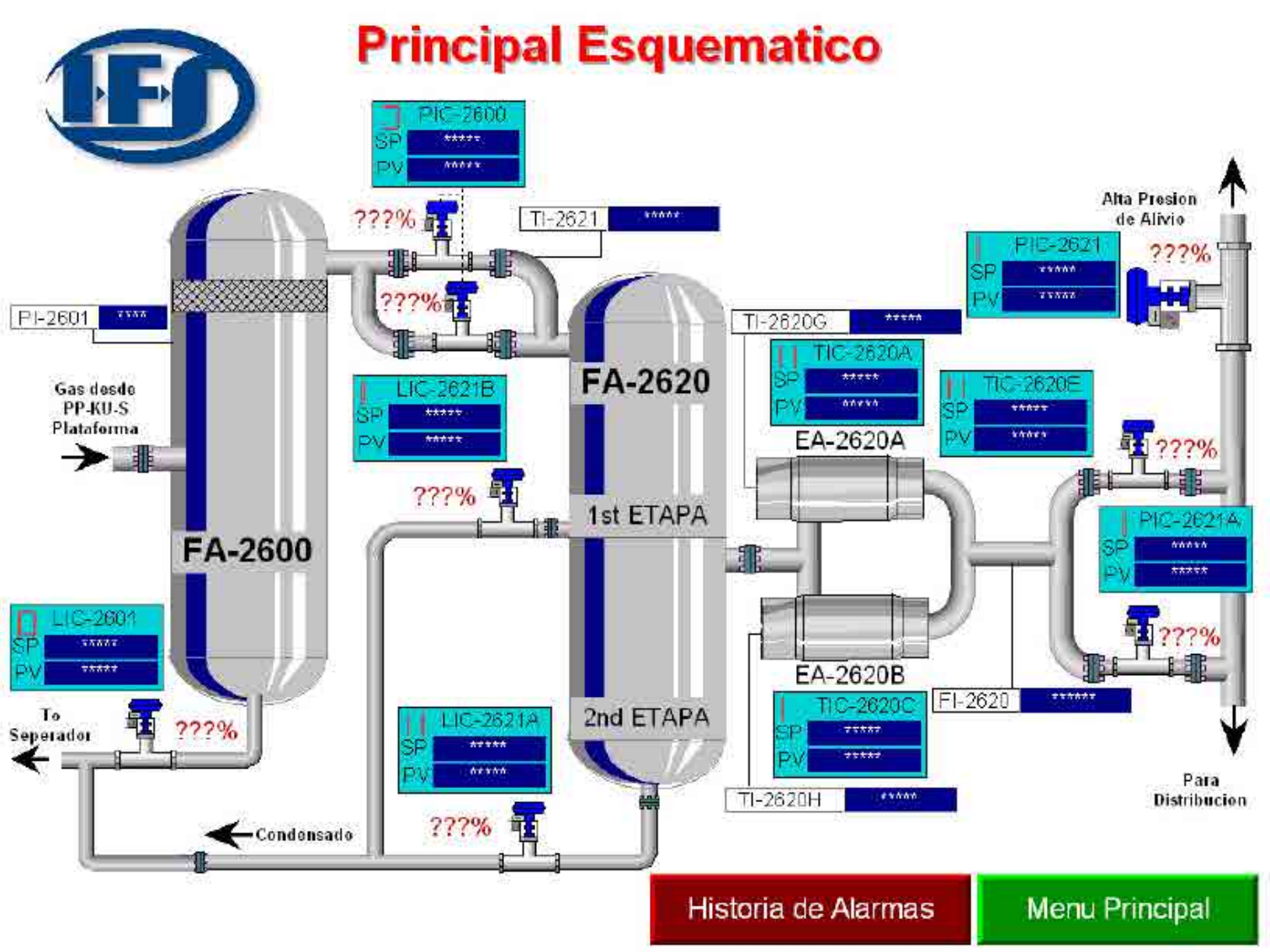

LOCAL SLOT 4 DIGITAL OUTPUT
DIRECCION:
NOMBRE:
DESCRIPCION:
Local:4:O.0
HTR_ON_OFF_LAMP_R1
Either HEATER EA2620A or EA2620B is running
Local:4:O.1
Local:4:O.2
HTR_COMMON_ALARM_LAMP_R2
DO COMMON ALARM LAMP
Local:4:O.3
HTR_MCB1_SHUNT_TRIP_SR3
Local:4:O.4
HTR_MCB2_SHUNT_TRIP_SR4
Local:4:O.5
Local:4:O.6
Local:4:O.7
Local:4:O.8
Local:4:O.9
Local:4:O.10
Local:4:O.11
Local:4:O.12
Local:4:O.13
Local:4:O.14
Local:4:O.15
Regresar

Monitoring Analog Inputs


LOCAL 2 - SLOT 0 - CHANNELS 0 & 1
HEATER EA-2620A BUNDLE TEMPERATURE
Dispositivo:
TIT-2620A
Unidades:
DEGREES C
Valor Bruto:
Valor:
Valor No Entrampado:
Minimo:
Maximo:
Alarmas
Punto de Ajuste
Detectado
Retraso Contador (msec)
Pestillo
MUY ALTA
ALTA
BAJA
MUY BAJA
HEATER EA-2620B BUNDLE TEMPERATURE
Dispositivo:
TIT-2620C
Unidades:
DEGREES C
Valor Bruto:
Valor:
Valor No Entrampado:
Minimo:
Maximo:
Alarmas
Punto de Ajuste
Detectado
Retraso Contador (msec)
Pestillo
MUY ALTA
ALTA
BAJA
MUY BAJA
Ir al Canal
2 & 3
4 & 5
6 & 7
Directorio de Mantenimiento

Monitoring Analog Outputs


LOCAL 2 - SLOT 2 - CHANNELS 0 TO 5
CHANNEL 0
Dispositivo:
EA-2620A
EA-2620A SCR CONTROL
Bruto
Scaled %
mA
******
CHANNEL 3
Dispositivo:
PY-2600A
SCRUBBER FA-2600 PRESSURE CONTROL VALVE
Bruto
Scaled %
mA
******
CHANNEL 1
Dispositivo:
EA-2620B
EA-2620B SCR CONTROL
Bruto
Scaled %
mA
******
CHANNEL 4
Dispositivo:
PY-2600B
SCRUBBER FA-2600 PRESSURE CONTROL VALVE
Bruto
Scaled %
mA
******
CHANNEL 2
Dispositivo:
LY-2601
SCRUBBER FA-2600 LEVEL CONTROL VALVE
Bruto
Scaled %
mA
******
CHANNEL 5
Dispositivo:
LY-2621B
FILTER SEPERATOR FA-2620 STAGE 1 LEVEL
Bruto
Scaled %
mA
******
Ir al Canal
0 TO 5
6 TO 11
Directorio de Mantenimiento



Monitoring and Manipulating PID Controls

Directorio de Control

FA-2600
Alta Presion
Depurador Vertical

Nivel

Presion

FA-2620
Baja Presion
Filtro Separador

2nd Etapa Nivel

1st Etapa Nivel

EA-2620A/B
Combustible Gas
Electric Calentador

EA -2620A Temperatura

EA -2620B Temperatura

EA -2620A/B
Outlet
Temperatura

L-2600
Combustible Gas
Sistema due Condiciona

Presion de Alivio

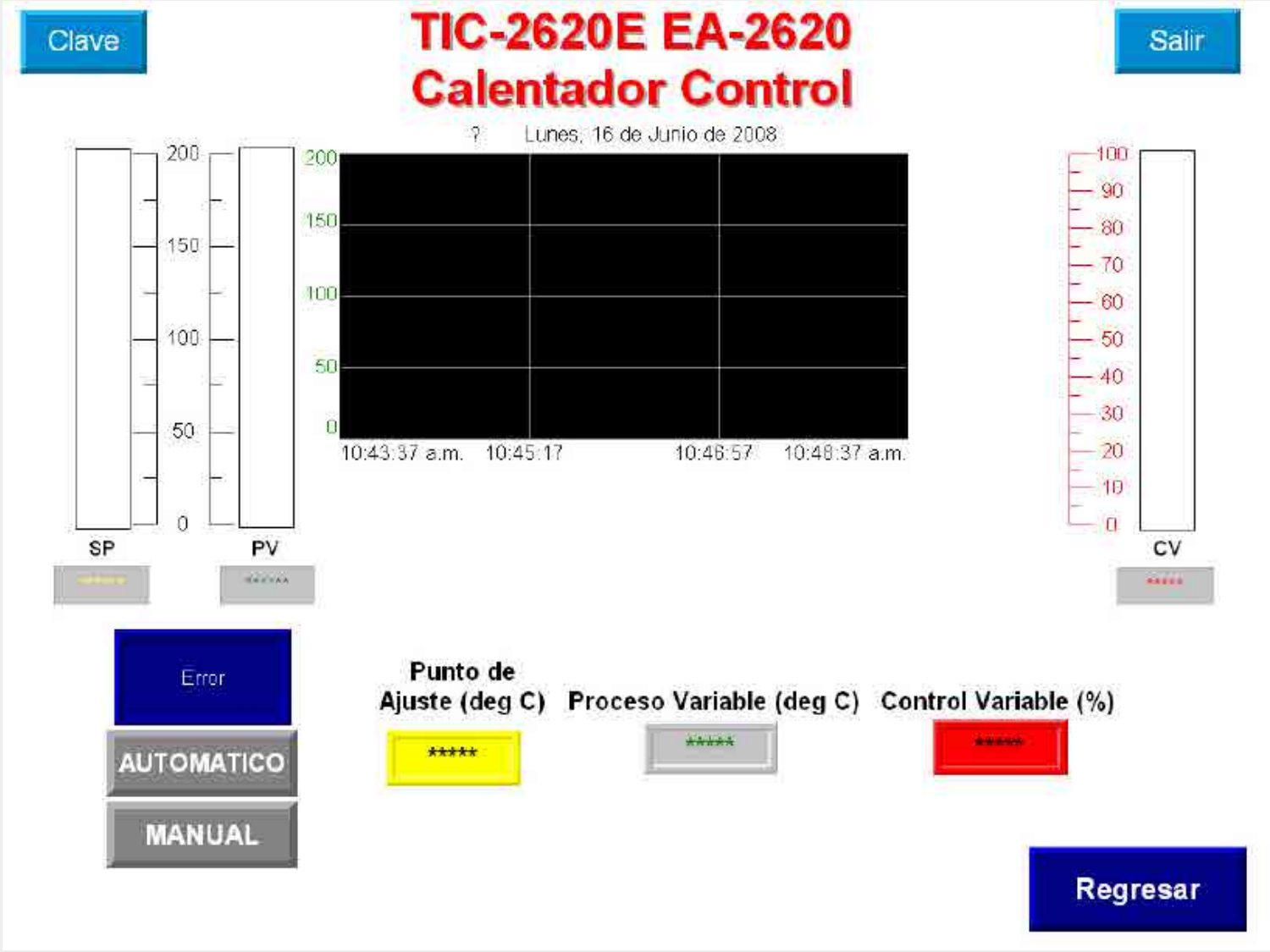
Presion de Descarga

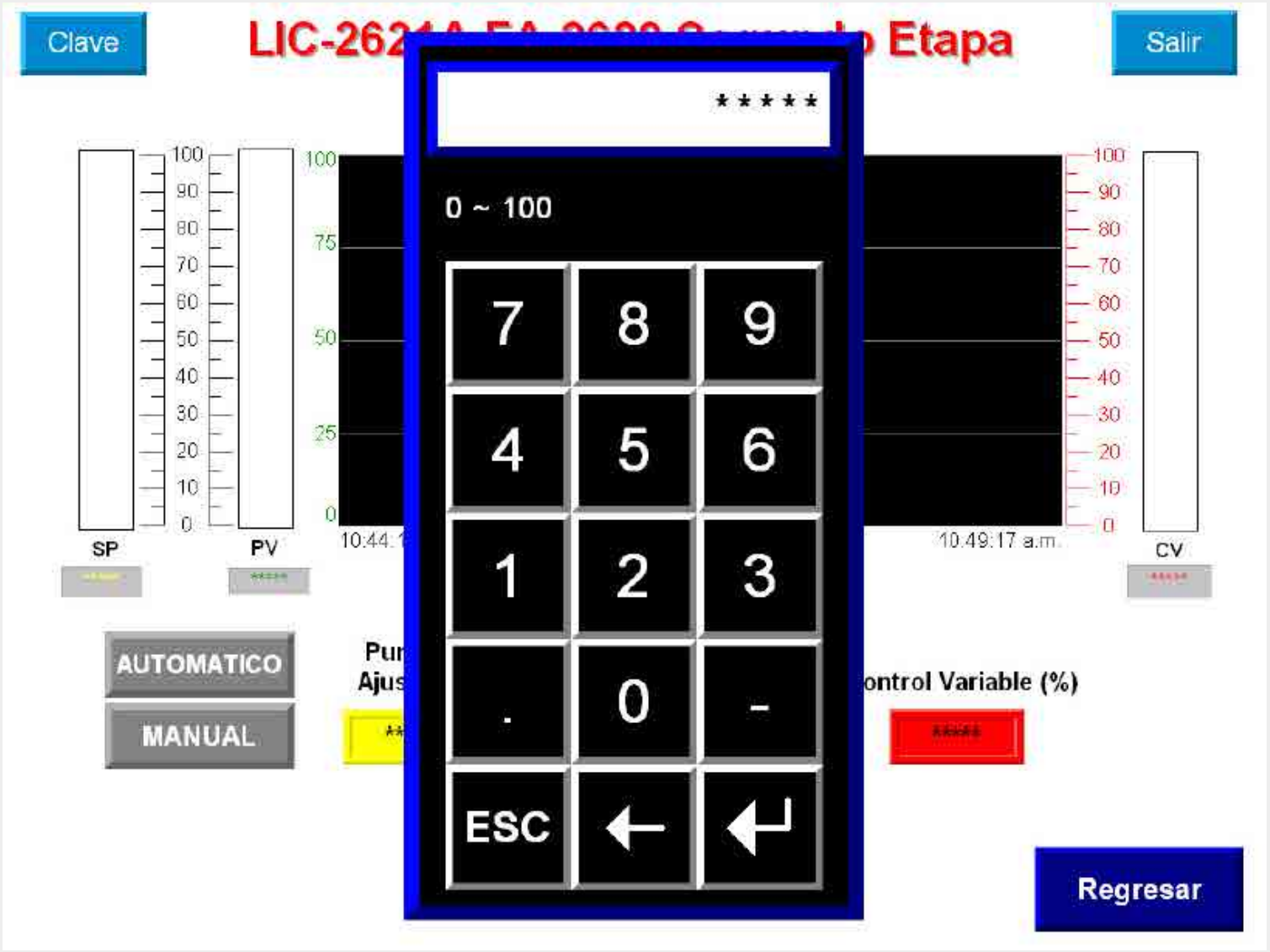
Principal Esquematico

Menu Principal

Directorio de Mantenimiento

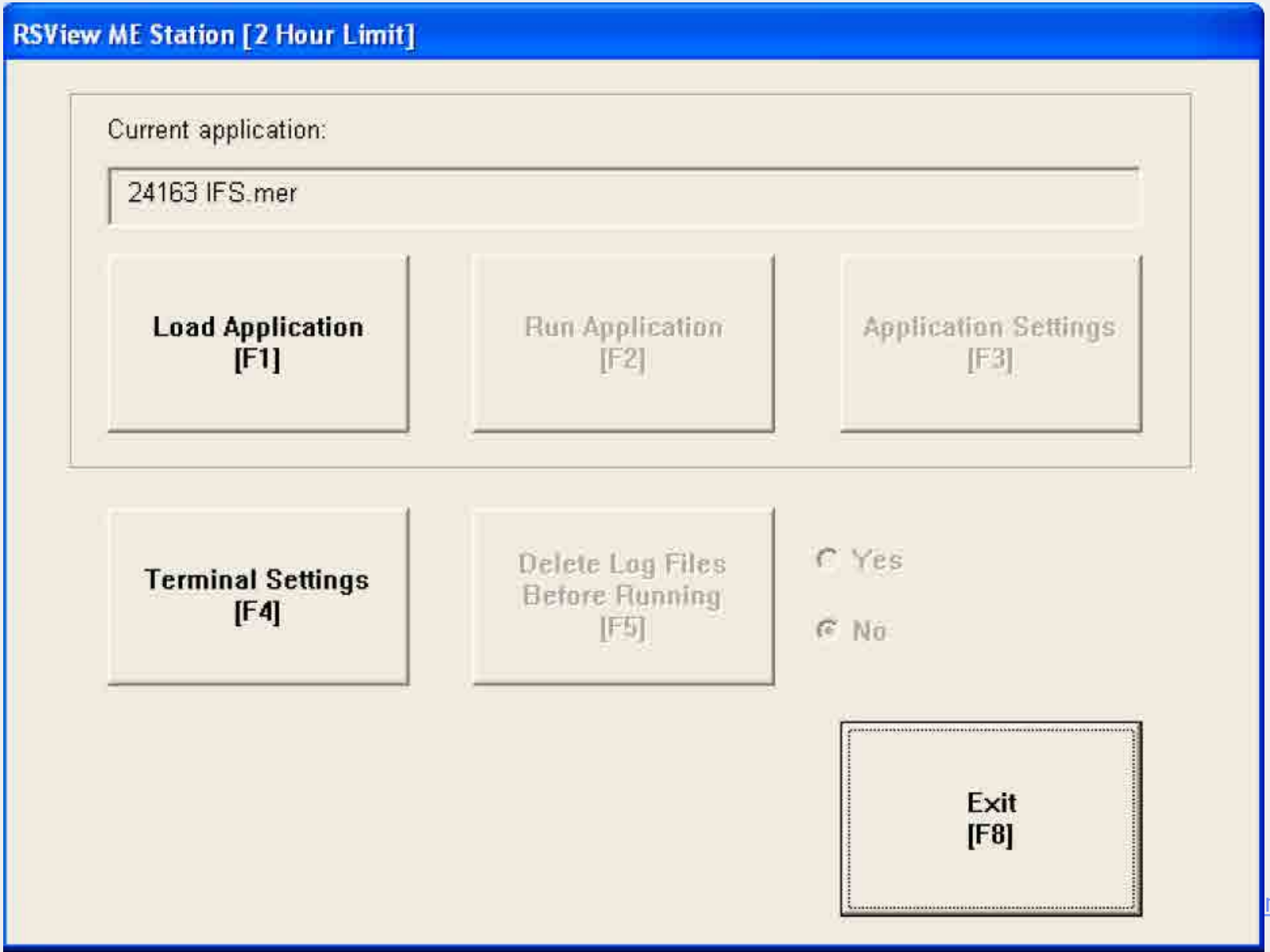
Historia de Alarmas


Clave
TIC-2620E EA-2620
Calentador Control
Salir
?
Lunes, 16 de Junio de 2008
200
150
100
50
0
SP
PV
10:43:37 a.m.
10:45:17
10:46:57
10:48:37 a.m.
100
90
80
70
60
50
40
30
20
10
0
CV
Error
AUTOMATICO
MANUAL
Punto de Ajuste (deg C)
Proceso Variable (deg C)
Control Variable (%)
*****
Regresar


Clave
Etapa
Salir
*****
0 ~ 100
7
8
9
4
5
6
1
2
3
.
0
-
ESC
SP
PV
CV
10:49:17 a.m.
AUTOMATICO
MANUAL
ontrol Variable (%)
Regresar

Alarms and Alarm History

Logging off and Powering Down the HMI


RSView ME Station [2 Hour Limit]
Current application:
24163 IFS.mer
Load Application [F1]
Run Application [F2]
Application Settings [F3]
Terminal Settings [F4]
Delete Log Files Before Running [F5]
Yes
No
Exit [F8]