

ALLIED ELECTRONICS, INC
STATION SITE CONTROLLER (SSC)

Installation and Start Up Guide

ARCO / ANDI
to Gilbarco



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1. General Information

1.1. Installation Environment

1. The Allied Electronics Station Site Controller (SSC) operates on 115 VAC @60hz,36 watts. The SSC is supplied with approximately 8ft. of 115 VAC power cord, and should be connected to an approved isolated ground receptacle on its own dedicated circuit. The SSC must be installed in a temperature controlled environment (between 32⁰ F and 100⁰ F).
2. Allied Electronics recommends that the SSC be installed with a UL Listed Escort Power Conditioner to protect against power surges, low voltage (brown outs), and lightning.
3. The SSC must be installed in accordance with the National Electrical Code (NFPA 70), the Automotive and Marine Service Station Code (NFPA 30A), and all state and local electrical codes.
4. The SSC must be installed indoors, above the Class 1, Division 2 Hazardous location.
5. All field wiring (that is, all wiring connected directly to dispensing devices) should be oil and gas resistant, as required by Paragraph 501-13 of the NEC, and should be sealed in accordance with Article 500 of the NEC.
6. For use with peripheral devices which are UL Listed, have an EIA RS232C (or RS422A) communication protocol, and are installed over a hazardous location.

1.2. Warranty

The SSC has a one year parts warranty only, from date of installation, which can either be phoned in or submitted using the warranty/registration card enclosed in every SSC. If the start up information is not registered with our office within thirty (30) days of installation, warranty will begin from the date of shipment. Allied will warrant all parts against defects but not against physical damage or improper installation. All parts being returned "under warranty" must be accompanied with a Allied RMA number. When calling Allied for RMA numbers for SSC main boards, you will be asked for the main board serial number, located on the upper left hand corner inside box, and a description of the problem.

1.3. FCC Warning

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class "A" computing device pursuant to Subpart B of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures may be required to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

1.4. Overview

The SSC interfaces to the following devices:

See the “Technical Tips” section for dispenser models that are supported.

Gilbarco Dispensers and CRIND

1. Gilbarco Dispensers via the 45 ma current loop board which is connected to the Blue/Black or the Universal Distribution Box.
2. Gilbarco Generic CRINDs, Monochrome / Info-Screen Graphics displays and Cash acceptors via a 45 ma current loop board which is connected to the Universal Distribution box.
3. GSM (Gilbarco Security Module) is required for debit support. The SSC communicates to the GSM via a fully populated RS-232 board.

Schlumberger/Tokheim PIC

1. Schlumberger PIC via a fully populated RS232 board connected to the SAM/SSM (Schlumberger Security Module).

Helix PIC (Payment Island Cashier)

Helix PIC via a 4-channel RS-485 interface board that is connected to the Allied Isolation box or can be hard wired directly to the individual CATs via a junction box.

Point - Of - Sale (POS)

ARCO PC Based Point -Of -Sale Computer via a fully populated RS-232 board.

Tank gauge

1. Veeder Root TLS 250, 350 & 350R or equivalent tank gauge system via a fully populated RS-232 board.
2. Any Tank Gauge system that uses the Veeder Root protocol.

2. Installation Information

2.1. Procedures

1. Hardware Installation

- a. Mount SSC unit onto wall.
- b. Route and connect all communication cables as labeled.
Refer to “*Configuration Diagrams*” section.
- c. Apply AC power to unit.

The SSC software will first initialize the hardware and then run some internal diagnostics before starting the application program. To indicate that the software is active, the SSC will display the following:

- d. The prompt will display, ⇒ [SSC System Reset]
[Initializing ...]

SSC will next show the following on the display for several seconds.

- ⇒ [Software Version]
[SSC Warm Start]

SSC will then show the following on the display when ready.

- ⇒ [Software Version]
[Date & Time]

If you have these prompts, then proceed to next step, if not refer to the “*Power-Up Diagnostics*” of the Technical Tips section.

2. Programming steps

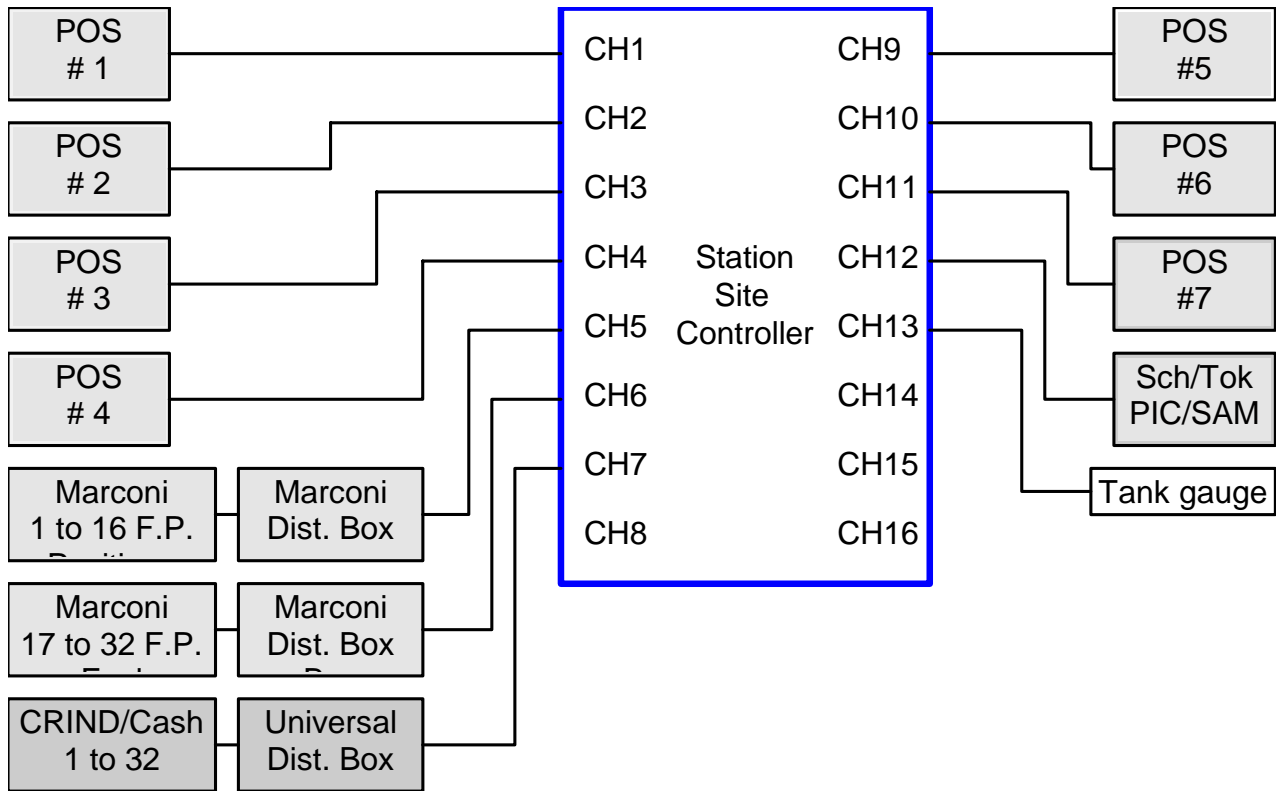
- a. Program the dispensers*.
- b. Program the SSC via the POS**.

Note* - Dispenser programming is not within the scope of this manual.

Note** - It is not within the scope of this manual to supply complete step-by-step programming of the POS.

2.2. Configuration Diagrams

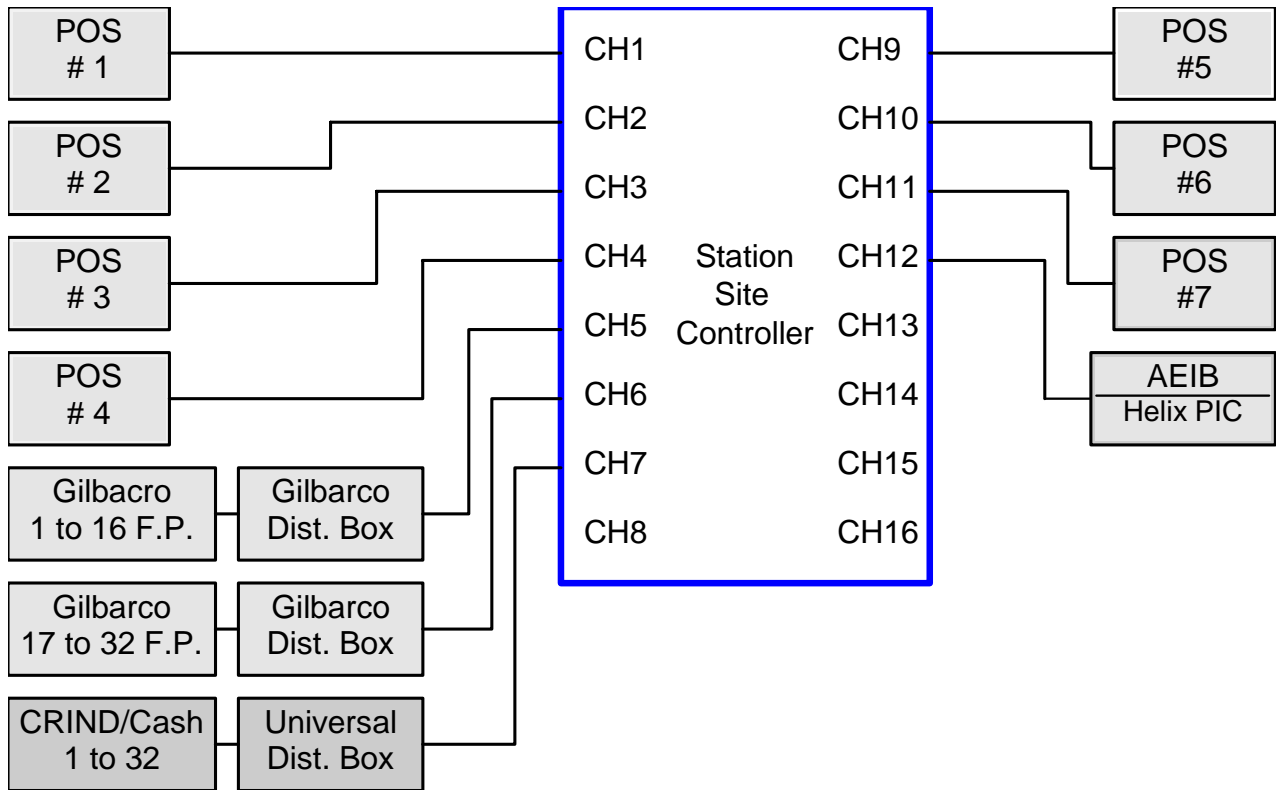
2.2.1. SSC to Gilbarco with the Schlumberger/Tokheim PIC



Communication Boards

CH1 (POS)	399-1610-F (RS-232 Fully Populated board)
CH2 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH3 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH4 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH5 (Dispenser)	499-2410 (Current loop board)
CH6 (Dispenser) "Optional"	499-2410 (Current loop board)
CH7 (Optional CRIND/Cash)	499-2410 (Current loop board)
CH9 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH10 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH11 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH12 (Sch/Tokheim PIC)	399-1610-F (RS-232 Fully Populated board)
CH13 (Tank Gauge)	399-1610-F (RS-232 Fully Populated board)

2.2.2. SSC to Gilbarco with the Helix PIC



Communication Boards

CH1 (POS)	399-1610-F (RS-232 Fully Populated board)
CH2 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH3 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH4 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH5 (Dispenser)	499-2410 (Current loop board)
CH6 (Dispenser) "Optional"	499-2410 (Current loop board)
CH7 (Optional CRIND/Cash).....	499-2410 (Current loop board)
CH9 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH10 (POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH11(POS) "Optional"	399-1610-F (RS-232 Fully Populated board)
CH12 (Allied Isolation Box/Helix PIC)..	499-4710 (4 channel RS485 board)

2.3. Cable Pin Assignments

2.3.1. POS Communication Cables

The SSC supports up to 7 POSs. The POS is a PC Based computer, which runs the Point-Of-Sale software. The serial port on the POS can be either a DB-25 or a DB-9 connector.

Note: The following cable configuration is being provided as an installation guide. Allied does not supply the POS cables with the ARCO ANDI/POS box.

SSC (CH1 - CH4 & CH9 - CH12) To POS (Serial Port) DB-25 Cable

SSC			POS	
DB25 Female			DB25 Female	
Pins			Pins	
TXD	2	----- Black	-----	3 RXD
RXD	3	----- White	-----	2 TXD
RTS	4	----- Green	-----	5 CTS
CTS	5	----- Red	-----	4 RTS
GND	7	----- Blue	-----	7 GND
DSR	6	----- Brown	-----	11 N/C
				20 DTR
DTR	11	----- Orange	-----	6 DSR
N/C	20	-----	-----	

SSC (CH1 - CH4 & CH9 - CH12) To POS (Serial Port) DB-9 Cable

SSC			POS	
DB25 Female			DB9 Female	
Pins			Pins	
TXD	2	----- Black	-----	2 RXD
RXD	3	----- White	-----	3 TXD
RTS	4	----- Red	-----	8 CTS
CTS	5	----- Green	-----	7 RTS
DSR	6	----- Brown	-----	4 DTR
GND	7	----- Blue	-----	5 GND
DTR	11	----- Orange	-----	6 DSR

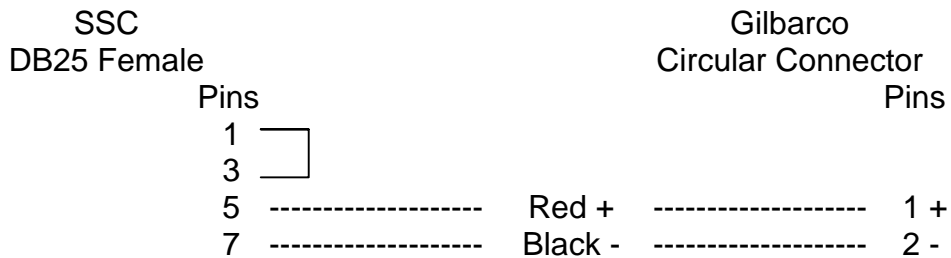
2.3.2. Gilbarco Pump and CRIND Control Cables

Up to 16 fueling positions may be connected to the SSC on each dispenser communications channel (CH5 and CH6). Up To 32 CRIND's may be connected to the SSC at CH7. Each channel must have a 2-wire custom cable which terminates in either a 2 pin male CPC (circular plastic connector) or a female DB-9 connector.

Interface board switches should be set to 45 ma/2 wire.

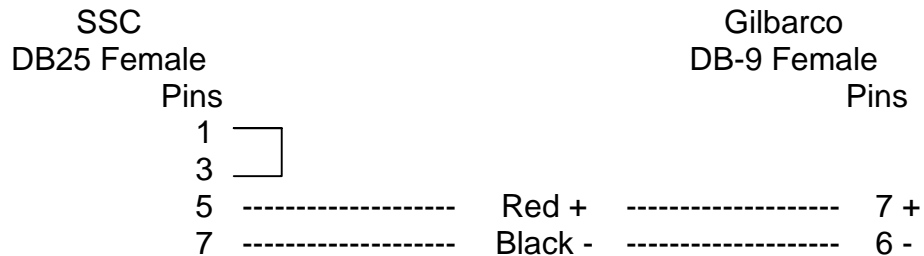
(1) Circular Plastic Connector

SSC (CH5, or CH6) To the Gilbarco (CPC)



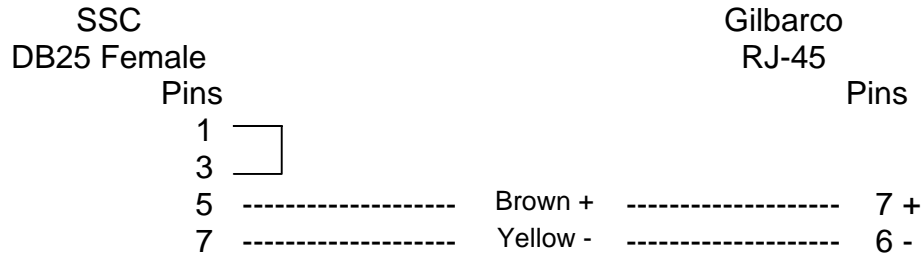
(2) DB-9 Connectors

SSC (CH5,CH6 or CH7) To the Gilbarco (Female DB-9)



(3) RJ-45 Connectors

SSC (CH5,CH6 or CH7) To the Gilbarco (RJ-45)



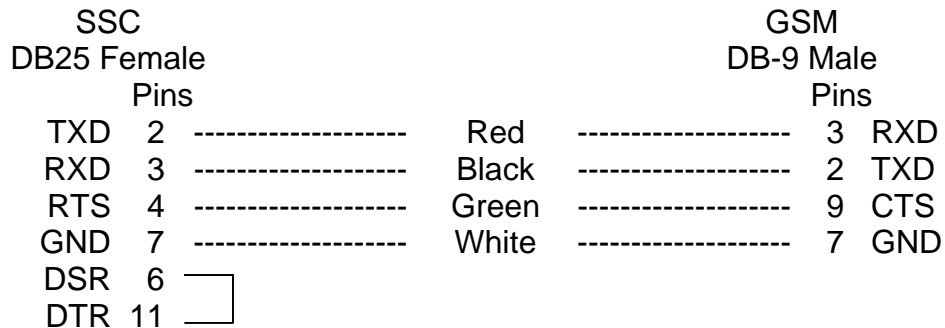
2.3.3. Gilbarco Security Module Cable

The SSC uses Channel 8 to interface to the GSM.

The GSM (Gilbarco Security Module) is required for CRIND systems with debit support.

The serial port on the GSM has a DB-9 connector which is to be connected to Channel 8 of the SSC. The cable pinouts are as follows:

SSC (CH8) To the GSM



Note: The GSM cable supplied by Gilbarco will **not** work with the SSC.

The Allied GSM cable shown above must be used. When the Gilbarco Debit option is ordered from Allied a standard 25' GSM/SSC cable will be supplied. See the "Cable Part Numbers" section for other available lengths.

2.3.4. Schlumberger/Tokheim Security Module Cable (SAM/SSM)

The SSC uses channel 12 to interface to the SAM/SSM.

The SSM (Schlumberger Security Module) is required for the Payment Island Cashier (PIC) systems with debit and cash acceptor support.

Port 2 on the SAM/SSM has a Female DB-9 connector, which is to be connected to Channel 12 of the SSC. The cable pinouts are as follows:

SSC (CH12) To the SAM/SSM (Port 2)

SSC			SAM/SSM	
DB25 Female			DB-9 Male	
	Pins			Pins
Drain	1 -----	Shield	-----	N/C
TXD	2 -----	White	-----	3 RXD
RXD	3 -----	Red	-----	2 TXD
GND	7 -----	Black	-----	7 GND
	4 <input type="checkbox"/>			
	5 <input type="checkbox"/>			
	6 <input type="checkbox"/>			
	11 <input type="checkbox"/>			

2.3.5. Helix PIC via the Allied Isolation Box

The SSC uses a 4-channel RS485 board to communicate to the Helix Pics. Up to 8 PICS (**see note below**) may be connected to channel 12 of the SSC. Channel 12 must be connected to J1 of the Allied Isolation box.

Note: Up to 8 PICs may be connected to the SSC at channel 12

SSC (CH12) Helix RJ45 adapter set to the Allied Isolation box

SSC DB25 Female Pins		CAT 5 Cable (T568B Spec.)		J1Allied Isolation Box
2	-----	Wht/Org	-----	1 RT1 +
3	-----	Orange	-----	2 RT1 -
6	-----	Wht/Grn	-----	3 RT2 +
7	-----	Green	-----	6 RT2 -
8	-----	Wht/Blu	-----	5 RT3 +
9	-----	Blue	-----	4 RT3 -
10	-----	Wht/Brn	-----	7 RT4 +
11	-----	Brown	-----	8 RT4 -

2.3.5.1. SSC/Helix to the Allied Isolation Box

Up to 8 HELIX/PICS may be connected to the Allied Isolation Box

SSC/Helix (CH7) To Allied Isolation box

SSC/Helix DB25 Female Pins				Allied Isolation box
1	-----	Shield	-----	Drain
2	-----	Red	-----	Data wire +
3	-----	Black	-----	Data wire -

Note: The SSC/Helix can communicate with dual or single sided Helix PICS.

Caution: The Helix cable cannot be installed in the same conduit as the intercom cable or high voltage lines. Serious damage to the Helix and or the SSC may result if the cable is not installed properly.

3. Programming

3.1. Dispenser Addressing

3.1.1. Gilbarco Addressing

3.1.1.1. Gilbarco CRIND jumper settings

The following is a list of the jumper settings for the Gilbarco CRIND's

Jumper	Description	Setting
JP1	Watchdog	Installed
JP14	GEN/MOC	Installed
JP 16	Spare Input	Installed- Sets the baud rate for the CRIND and PIC to 4800.
JP13	Side A	When appropriate
JP11	Cold Start	Installed on initial startup. The CRIND will prompt for this to be removed after a complete cold start.
JP4 - JP8	CRIND Address	Set for the appropriate address- one behind the pump address. ex: FP #1, CRIND #0, etc.

3.1.1.2. Gilbarco Distribution box jumper settings

The SSC communicates with the Gilbarco dispensers and CRIND's via two wire communications and uses 45ma current loop boards.

Channel 5 and Channel 6 on the SSC can each communicate with up to Sixteen fueling positions. Channel 7 can communicate with up to 32 CRIND's

The following is a list of the Jumper settings for the Gilbarco distribution box, for both Pump and CRIND communications. There are three options:

- 1) 1 board, 1 input, 8 loops for dispensers or CRIND's on board 1
- 2) 2 boards, 1 input , 16 loops for dispensers or CRIND's on boards 1 & 2
- 3) 2 boards, 2 inputs, 8 loops for dispensers on board 1 and 8 loops for CRIND's on board 2 or 8 loops for dispensers on board 1 and 8 loops for dispensers on board 2.

Option	Jumper setting for Board 1	Jumper setting for Board 2
1	JP11, set to "B"	N/A
1	JP13, set to "B"	N/A
2	JP11, set to "B"	JP11, set to "A"
2	JP13, set to "A"	JP13, set to "B"
3	JP11, set to "B"	JP11, set to "B"
3	JP13, set to "B"	JP13, set to "B"

3.1.1.3. Gilbarco Dispensers and CRIND Addressing

Two Channels (5 and 6) have been designated to communicate with the Gilbarco dispensers. Each Channel can accommodate up to 16 fueling positions. The address of the first fueling position on Channel 5 will be set to address “1”, the second to address “2” etc. If Channel 6 is used, the address of the first fueling position connected on this Channel will also be set to address “1”, the second to address “2” etc. See example.

***Note:** A performance advantage is gained by using both communication Channels.*

The SSC uses Channel 7 to communicate with the Gilbarco CRINDs The CRIND device address must be one less than the fueling position number.

Fueling Position			CRIND Address		
Fueling Position	Address	SSC Channel	Advantage	Encore	SSC Channel
1	1	CH-5	0	32	CH-7
2	2	CH-5	1	1	CH-7
3	3	CH-5	2	2	CH-7
4	4	CH-5	3	3	CH-7
5	5	CH-5	4	4	CH-7
6	6	CH-5	5	5	CH-7
7	7	CH-5	6	6	CH-7
8	8	CH-5	7	7	CH-7
9	9	CH-5	8	8	CH-7
10	10	CH-5	9	9	CH-7
11	11	CH-5	10	10	CH-7
12	12	CH-5	11	11	CH-7
13	13	CH-5	12	12	CH-7
14	14	CH-5	13	13	CH-7
15	15	CH-5	14	14	CH-7
16	16	CH-5	15	15	CH-7
17	1	CH-6	16	16	CH-7
18	2	CH-6	17	17	CH-7
19	3	CH-6	18	18	CH-7
20	4	CH-6	19	19	CH-7
21	5	CH-6	20	20	CH-7
22	6	CH-6	21	21	CH-7
23	7	CH-6	22	22	CH-7
24	8	CH-6	23	23	CH-7
25	9	CH-6	24	24	CH-7
26	10	CH-6	25	25	CH-7
27	11	CH-6	26	26	CH-7
28	12	CH-6	27	27	CH-7
29	13	CH-6	28	28	CH-7
30	14	CH-6	29	29	CH-7
31	15	CH-6	30	30	CH-7
32	16	CH-6	31	31	CH-7

3.1.1.4. Gilbarco Blending Dispensers

Gilbarco Variable Blenders

The ANDI interfaces to the following Gilbarco variable Blenders:

3+0 4+0 5+0
 3+1 4+1 5+1

A variable blender without diesel, or 3+0, will have position 1, grade 1 on the left on both sides of the pump. Gilbarco products are mapped as positions 1, 3 and 5 (Advantage) and positions 1, 2 and 3 (Advantage with "Optimized" electronics), Low grade, Mid grade and High grade respectively, from left to right when facing each side of the dispenser. A 5+0 will have the products mapped as positions 1, 2, 3, 4 and 5. Low grade, blend grade 1, blend grade 2, blend grade 3 and High grade. The following is an example of a 3+0.

B side	product 3	product 2	product 1	Advantage Adv. Optimized
	position 5 <i>position 3</i>	position 3 <i>position 2</i>	position 1 <i>position 1</i>	
A side	product 1	product 2	product 3	Advantage Adv. Optimized
	position 1 <i>position 1</i>	position 3 <i>position 2</i>	position 5 <i>position 3</i>	

An advantage variable blender with diesel, or 3 + 1, will always have the diesel product for each side opposite one another. The diesel will be on the right when facing side A, while diesel will be on the left when facing side B. Gilbarco maps the diesel product as product 6. The remaining grades are mapped the same as the 3 + 0 described above. The pump is shown below:

B Side	product 3	product 2	product 1	product 4	Advantage Adv. Optimized
	position 5 <i>position 3</i>	position 3 <i>position 2</i>	position 1 <i>position 1</i>	position 6 <i>position 6</i>	
A Side	product 1	product 2	product 3	product 4	Advantage Adv. Optimized
	position 1 <i>position 1</i>	position 3 <i>position 2</i>	position 5 <i>position 3</i>	position 6 <i>position 6</i>	

Product to Position Mapping for Gilbarco Variable Blenders

In the Gilbarco system, the product type to product # assignment can be in any order. For the 3+0 and 3+1 variable blenders, the following will be used:

POS Product #1: Low grade
 POS Product #2: Blended Product
 POS Product #3: High grade
 POS Product #4: Diesel

Model 3 + 0 Variable blender

The table below lists the proper product to position assignment for each blender type which is set via the POS *fueling point configuration* menu.

The *blender type* setting is not used and should be set to zero (0).

Position	Advantage Product	Adv. Optimized Product
1	Low grade	Low grade
2	Not assigned	Blended product
3	Blended product	High grade
4	Not assigned	<i>Not assigned</i>
5	High grade	<i>Not assigned</i>
6	Not assigned	<i>Not assigned</i>
7	Not assigned	<i>Not assigned</i>
8	Not assigned	<i>Not assigned</i>

**** The low grade and the high grade products may be switched depending on the position of the dispenser and the installation of the product lines.***

Model 3 + 1 Variable blender

The table below lists the proper product to position assignment for each blender type which is set via the POS *fueling point configuration menu*.

The *blender type* setting is not used and should be set to zero (0).

Position	Advantage Product	Adv. Optimized Product
1	Low grade	Low grade
2	Not assigned	Blended product
3	Blended product	High grade
4	Not assigned	Not assigned
5	High grade	Not assigned
6	Diesel	Diesel
7	Not assigned	Not assigned
8	Not assigned	Not assigned

** The low grade and the high grade products may be switched depending on the position of the dispenser and the installation of the product lines.*

Product to Position Mapping Fixed Blenders (Advantage and Optimized)

The B65 is a 6 hose fixed blender. A 6 hose fixed Gilbarco blender does not require any special product mapping. The table below lists the proper product to position assignment for this blender type and it is programmed via the POS *fueling point configuration menu*.

The *blender type* setting is not used and should be set to zero (0).

Position	Product
1	Low grade
2	Blended product
3	High grade
4	Not assigned
5	Not assigned
6	Not assigned
7	Not assigned
8	Not assigned

** The low grade and the high grade products may be switched depending on the position of the dispenser and the installation of the product lines.*

3.1.1.5. Gilbarco Security Module (GSM) for Debit

The Gilbarco Security Module (GSM) must be ordered from Gilbarco for a specific Network application. It should be configured by Gilbarco for the location. There are no switches or jumpers to be set

3.2. PIC Addressing (Payment Island Cashier)

3.2.1. Schlumberger/Tokheim PIC

Channel 12 of the ANDI box has been designated to communicate with the Schlumberger/Tokheim PICs (via the SAM). Each PIC can be configured (via the POS) to control any or all of the fueling positions. The PICs can be addressed from 1-8. (See *example*)

3.2.1.1. Schlum/Tok Access/Security Module (SAM/SSM) for Debit

The Schlumberger/Tokheim Access/Security Module (SAM/SSM) must be ordered from Schlumberger for a specific Network application. The following switches in the SAM/SSM must be set for proper operation.

SAM/SSM Switch #1		SAM/SSM Switch #3	
Position	Setting	Position	Setting
1	off	1	off
2	on - DUKPT off - MK/SK	2	on
3	off	3	off
4	off	4	on
5	on	5	off
6	off	6	on
7	off		
8	on		

Example:

PIC Address	SSC Channel
1	CH-12
2	CH-12
3	CH-12
4	CH-12
5	CH-12
6	CH-12
7	CH-12
8	CH-12

3.2.2. Helix PIC

Channel 12 of the ANDI box has been designated to communicate with the Helix PICs (Via the Allied Isolation box). Each PIC can be configured (via the POS) to control any or all of the fueling positions. The PICs can be addressed from 1-8. (See *example*)

Note: The Helix PIC IDs must also be setup thru the keypad on the PIC itself.

Example:

PIC Address	SSC Channel
1	CH-12
2	CH-12
3	CH-12
4	CH-12
5	CH-12
6	CH-12
7	CH-12
8	CH-12

3.3. SSC Parameters Values and Options

The SSC keypad is not used to configure the SSC. The SSC configuration is done by the POS. The POS has to download all required parameters to the SSC. The SSC will start polling the dispensers only after the POS has downloaded station configuration data. If the SSC has not receive the download from the POS you will see [CHXX Await Cnfg.] This means the SSC is waiting to be configured before this Channel becomes active.

Parameters Downloaded from POS:

- DPT and PIC Configuration
- Fuel Information
- Product Information
- Cash / Credit Limits
- Mode of Service
- Default Price Level
- Sale Stacking
- Number of fueling positions

3.4. Keypads

3.4.1. Gilbarco CRIND

Type 1

1	2	3		Pay Outside Credit
4	5	6	Pay Inside Cash	Pay Inside Credit
7	8	9	No	Receipt Yes
Clear	0	Enter	Help	Cancel

Type 2

1	2	3		Pay Outside
4	5	6		Pay Inside
7	8	9	No	Receipt Yes
Clear	0	Enter	Help	Cancel

Type 3

1	2	3	Pay Outside Debit	Pay Outside Credit
4	5	6	Pay Inside Cash	Pay Inside Credit
7	8	9	No	Receipt Yes
Clear	0	Enter	Help	Cancel

Type 4

1	2	3	Pay Outside	
4	5	6		Pay Inside
7	8	9	Yes	Help
Clear	0	Enter	No	Cancel

Type 5 “Info Screen (Virtual Pay Inside only)

Type 6 “Info Screen (Virtual Pay inside Cash & Pay Inside Credit)

Note: Outside Debit and Outside Cash is also supported

Soft key Left	--- Pay Here Credit	Soft key Right
Soft key Left	--- Pay Inside (keypad 5) --- Pay Inside Credit (keypad 6)	Soft key Right
Soft key Left	--- Pay Inside Cash (keypad 6)	Soft key Right
Soft key Left		Soft key Right

Help
Cancel

1	2	3
4	5	6
7	8	9
Clear	0	Enter



Type 7

1	2	3	Pay Here	
4	5	6	Pay Inside	
7	8	9	Yes	No
Clear	0	Enter	Help	Cancel

Type 9

1	2	3	Pay Outside Credit	
4	5	6	Pay Outside Debit	
7	8	9	Pay Inside Cash	
Clear/No	0	Enter/Yes	Cancel	

Type A

1	2	3		Pay Outside Credit
4	5	6		Pay Inside
7	8	9	No	Yes
Clear	0	Enter	Help	Cancel

Type B

1	2	3	Pay Outside Debit	Pay Outside Credit
4	5	6		Pay Inside
7	8	9	No	Yes
Clear	0	Enter	Help	Cancel

Type C

1	2	3		Pay Outside Credit
4	5	6	Pay Outside Cash	Pay Inside
7	8	9	No	Yes
Clear	0	Enter	Help	Cancel

Type D

1	2	3	Pay Outside Debit	Pay Outside Credit
4	5	6	Pay Outside Cash	Pay Inside
7	8	9	No	Yes
Clear	0	Enter	Help	Cancel

Type E

1	2	3	Yes
4	5	6	No
7	8	9	Help
Clear	0	Enter	Cancel

Type F

1	2	3	Pay Outside Debit	Pay Outside Credit
4	5	6	Pay Inside Cash	Pay Inside Credit
7	8	9	Cancel	Help
Clear	0	Enter	No	Yes

3.4.2. Schlumberger/Tokheim CardScan and PIC

Enter	1	2	3
Receipt	4	5	6
English Espanol	7	8	9
Cancel	Clear	0	