

# Table of Contents

1.	Ge	eneral Information	1-1
	1.1.	Installation Environment	1-1
	1.2.	Warranty	1-1
	1.3.	FCC Warning	1-2
	1 /		1_3
2	I.H.		<b></b> 1-0
۷.			
	2.1.	Procedures	2-1
	2.2.	Configuration Diagrams	2-2
	2.2	2.1. SSC to Tokheim with the Schlumberger/Tokheim PIC	2-2
	2.2	2.2. SSC to Tokheim with the Helix PIC	2-3
	2.3.	Cable Pin Assignments	2-4
	2.3	3.1. POS Communication Cables	2-4
	2.3	3.2. Tokheim Pump and DPT Control Cables	2-5
	2.3	3.3. Tokheim Pump Control (Dual)	2-6
	2.3	3.4. Tokheim DPT	2-7
	2.3	3.5. Schlumberger/Tokheim PIC via the (SAM/SSM)	2-8
	2.3	3.6. Helix PIC via the Allied Isolation Box	2-9
		2.3.6.1. SSC/Helix to the Allied Isolation Box	2-9
	2.3	3.7. Tank Gauge Cable	2-10
3.	Pre	ogramming	3-1
	3.1.	Dispenser Addressing	3-1
	3.1	I.1. Tokheim Addressing	3-1
		3.1.1.1. Tokheim Model #67 Interface boxes	3-1
		3.1.1.2. Tokheim Dispensers	3-2
		3.1.1.3. Tokheim Blending Dispensers	3-3
		3.1.1.4. Tokheim Debit Keypad Modules	3-5
	30	PIC Addressing (Payment Island Cashier)	3-6
	3.2	21 Schlumberger/Tokheim PIC	3-6
	0.2	3 2 1 1 Schlum/Tok Access/Security Module (SAM/SSM) for Debit	
	3.2	2.2. Helix PIC	
	3.3.	SSC Parameters Values and Options	3-7
	o ∕	Kaynada	2.0
	ວ.4. 2 /	neypaus	ა-ბ ი ი
	3.4 2.4	t. I. IUNIGIII	
	0.4	r.2. Ooniumberger I 10	

## 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 32<sup>o</sup> F and 100<sup>o</sup> 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.

#### Tokheim Dispensers & DPTs

- 1. Tokheim Dispensers via a 12V Serial interface board connected to the Model 98, or 67 Interface Boxes.
- 2. Tokheim Generic DPTs, Graphic displays, Debit modules and Cash acceptors via an RS-485 interface board connected to the Model 69 interface box.

#### Schlumberger/Tokheim PIC (Payment Island Cashier)

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

#### Point - Of - Sale (POS)

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

#### 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.

#### 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 Tokheim 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)	399-1512 (12 volt serial interface board)
CH6 (Dispenser) "Optional"	399-1512 (12 volt serial interface board)
CH7 (DPTs) "Optional"	499-3710 (RS-485 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)





# **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)	.399-1512 (12 volt serial interface board)
CH6 (Dispenser) "Optional"	.399-1512 (12 volt serial interface board)
CH7 (DPTs) "Optional"	.499-3710 (RS-485 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				POS
DB25 Fe	emale		DB2	5 Female
Pin	S			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			<u> </u>	

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

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

SSC DB25 Fer	nale		POS DB9 Female		
Pins	5			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	

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## 2.3.2. Tokheim Pump and DPT Control Cables

Up to 2 Tokheim 98 or 67 boxes may be connected on each dispenser communications Channel. Each box must have a 6-wire custom cable, which terminates in a 16-position male CPC (Circular Plastic Connector).

This cable connects to CH5 or CH6 and supports up to 16 fueling positions.

Pin-1 (Drain)	Connect to CPC-16
Pin-2 (TxD)	Connect to CPC-2
Pin-3 (RxD)	Connect to CPC-3
Pin-4 (Ground)	Connect to CPC-6
Pin-5 (Em. Stop)	Connect to CPC-10
Pin-6 (Em. Stop)	Connect to CPC-11

#### SSC (CH5, 6) To the Tokheim Cable

SSC			ТОК
DB25 Female		Circula	r Connector
Pins			Pins
1	Sheild		16
2	Brown		2
3	Red		3
4	Blue		6
5	Violet		10
6	White		11

# 2.3.3. Tokheim Pump Control (Dual)



# SSC (CH5 ,6) To the Tokheim Dual Cable (2 Dist. Boxes)

SSC			-	TOK	
DB25 Fen	nale		Circular	r Conr	nector
Pins				Pins	
1		Shield		16	
2		Brown		2	
3		Red		3	1st
4		Blue		6	Cable
5		Violet		10	
6		White		11	
7		Shield		16	
8		Brown		2	
9		Red		3	2nd
10		Blue		6	Cable

Violet

White

-----

12 -----

11

10

11

------

-----

#### 2.3.4. Tokheim DPT

<u>SSC CH-7</u>	69 Interface Box (J1)	Function
Pin 1 Pin 2 Pin 3	Screw 4 Screw 2 Screw 1	Shield RS 485 + RS 485 -
Pin 4	Screw 3	Ground

# SSC (CH7) To the Tokheim DPT Cable

SSC		Tokheim #69 E	Зох
DB25 Female	J1 Connecto	or	
Pins		Screws	
1	Shield	4	
2	White	2	
3	Red	1	
4	Black	3	

**Note:** up to 32 Tokheim DPTs may be connected to the ssc at ch7. A #18 awg 3 conductor shielded cable rated at 600 volts oil and gas resistant must be used for DPT communication, Allied part #28318sf or equivalent.

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

#### 2.3.5. Schlumberger/Tokheim PIC via the (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				SAM/SSM		
DB25 Female				DB-9 Male		
	Pin	S		Pins		
Drain	1		Shield		N/	C
TXD	2		White		3	RXD
RXD	3		Red		2	TXD
GND	7		Black		7	GND
	4					
	5					
	6					
	11					

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

#### 2.3.6. 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 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 -

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

# 2.3.6.1. 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		Allied Isolation box
Pins		
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.

#### 2.3.7. Tank Gauge Cable

The SSC uses Channel 13 to interface to the Veeder-Root or Equivalent tank gauge systems. Configure the tank gauge communication parameters as follows:

#### Baud Rate: 9600 Parity: Odd Stop Bits: 1 Data Bits: 7

On a TLS-250, the communication parameters are set using a rotary switch and DIP switches, (please refer to the TLS 250 manual).

On a TLS-350, the communication parameters are programmed via the TLS keyboard (please refer to TLS 350/350R manual).

SSC			Tank	gauge
DB25 Female	е		DB25	5 Male
Pins			Р	ins
TXD 2		Black	 3	RXD
RXD 3		White	 2	TXD
RTS 4	7			
CTS 5				
GND 7		Red	 7	GND
DSR 6				
DTR 11				

#### SSC (CH13) To the TLS Cable

#### SSC (CH13) Cable to the Red Jacket "ST" tank gauge

SSC			Red Jacket
DB25 Female			DB9 Female
Pins			Pins
TXD 2		Black	 2 RXD
RXD 3		White	 3 TXD
CTS 5		Green	 7 RTS
GND 7		Red	 5 GND
DSR 6	7		
DTR 11			

#### 3. Programming

#### 3.1. Dispenser Addressing

#### 3.1.1. Tokheim Addressing

#### 3.1.1.1. Tokheim Model #67 Interface boxes

Tokheim manufactures two model #67 interface boxes, model #67A and #67B. The 67B interface box must be *"downgraded"* to be a *#67A* in order for it to communicate to an Allied interface box. The 67B interface box will not operate with any Allied interface systems.

The downgrade consists of the following changes:

- 1. Disconnect J6 and J8 from the interface motherboard (Part# 316386-1).
- 2. Disconnect *J*3 from the interface power supply board (Part# 421483-1). This board is only in the 67B interface box.
- 3. *J3, J6* and *J8* make up a complete cable assembly. Discard the entire assembly.
- 4. Disconnect *J4* from the power supply board and connect it into *J6* on the motherboard.

**Note:** Once this "downgrade" is completed, the 67 box will communicate with the Allied interface.

#### 3.1.1.2. Tokheim Dispensers

Two Channels (5 and 6) have been designated to communicate with the Tokheim 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 .

The SSC uses Channel 7 to communicate with the Tokheim DPTs. The DPT device address must be the same as the fueling position number. Unless it is above 16.

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

# Example:

# 3.1.1.3. Tokheim Blending Dispensers

#### Variable Blenders

The ANDI interfaces to the following types of Tokheim variable blenders:

Premier Multi hose, multi product blender Single hose, multi product blender Single hose, multi product + diesel blender

#### Fixed Blenders

The ANDI interfaces to the following types of Tokheim fixed blenders:

TCSA blender Premier multi hose, multi product blender Premier single hose, muti product blender One of the above with diesel

#### Dispenser Programming

Mode 26 of the dispenser programming must be configured correctly for the blend ratios. The programming screen for the dispenser is shown below, for variable blenders.



1) In mode 26 on the right side of the gallon display window a **0**,**1 or 2** may be showing in the gallon window. This option sets the *Blender type.* 

- 0 = Blender used without ratio verification\*
- 1 = Blender used with ratio verification\*

2 = Blender used with a controller that does not support blenders

\* **ratio verification** - The POS ratios must match the dispenser ratios. If the ratios do not match, an error message, " **Blend Ratio Error**", will be displayed on the dispenser card reader, if present, when the customer attempts to reset and begin fueling the blended product.

2) Set the blender ratios. Each product has two ratios which are displayed in the PPG windows:

Top line= ratio of the left piped productBottom line= ratio of the right piped product

As shown in the figure above, the left piped product has 100 % of the high grade and 0 % of the low grade. The right piped product has 0 % of the high grade and 100 % of the low grade.

The blend product allows the left (top) grade to be set, and automatically adjusts the bottom grade ratio so the sum of the ratios equals 100. The *Blended Fuels Ratios* settings in the POS must match the dispenser setting.

#### Product to Position Mapping

Tokheim dispensers do not require special product to position mapping in the POS *Fueling Point Configuration* menu. The products are set to positions 1 through 3 for a 3 product dispenser, positions 1 through 4 for a 4 product dispenser and positions 1 through 5 for a 5 product dispenser. The table below lists the proper product to position assignment for a 4 product dispenser.

The **blender type** setting for each fueling point must be set properly to one of the values listed below.

2 = Fixed blender

3 = Variable blender or Variable + 1 with the non blended products set as "non" in Mode 26

- 4 = Variable blender with the non blended product set as a ratio
- 5 = Variable blender + 1 with the non blended product set as a ratio

Position	Product
1	Low grade
2	Blended product
3	High grade
4	Diesel
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.

#### 3.1.1.4. Tokheim Debit Keypad Modules

The Tokheim Debit Keypad Modules must be ordered from Tokheim for a specific Network application. They should be configured by Tokheim 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. Tokheim

Type 1

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

Type 2

Pay I	nside	Pay	Here
Rec	ceipt Io	Re Y	ceipt ′es
1	2	3	C I
4	5	6	e a r
7	8	9	E n
Help	0	Cancel	t e r

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

Туре 3



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

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

Type 5

# Type 6

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

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

Туре	8
------	---

# Туре 9

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

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



# Туре В

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

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

Туре С

Type D

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

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

Туре Е	
--------	--

(Premier Graphics Keypad – Start button, Soft key, Cancel) This keypad is supported regardless of keypad setting

# Note: Outside Debit and Outside Cash is also supported



# 3.4.2. Schlumberger PIC

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

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