

# **IF600** Programming Manual

The IF600 is a hardware solution for attaching Radio Paging to a non-standard protocol output host. The IF600 will accept 600 input strings of 80 characters each and output a custom message string to the local paging transmitter. Each output string can be sent to a specific Pager ID or Group ID. In addition that ID can activate any or all of the four onboard form C relays. The relay(s) can be activated by a key word or phase.

#### Selecting Program

After installing the program from the CD that came with your equipment you are ready to program the IF600 to receive a data stream and match a word or phase.

Setup

- 1. Connect the supplied RS232 Null Modem cable to COM #1. Note: All programming is accomplished via Com Port #1
- 2. Connect the power cable to the IF600. You will hear a beep.
- 3. Run the IF600 program.



#### **IMPORTANT**: IF UNIT HAS BEEN PREVIOUSLY PROGRAMMED, ALWAYS SELECT DOWNLOAD FROM PAGER BEFORE PROCEEDING. THIS WILL ENSURE THE CURRENT DATA IS NOT LOSTED.

#### **Programming**

- 1. On the main screen of the IF600 Program, select [CAP CODES].
- 2. Select [NEW] and enter the cap codes used for paging.
- 3. Select [Output on Serial 1], [Alpha] pager type and check all levels.
- 4. Select OK.

Capcode and Options       QK         Capcode 0300808       QK         Range 0       New         Name       Delete         ✓ Output on Serial 1       Alpha ▼         Output on Serial 2       V         Evel:       ✓ A       ✓ B         Level:       ✓ C       ✓ D         1:       No Action ▼       0       0         3:       No Action ▼       0       0         4:       No Action ▼       0       0

- 5. Select [Serial Options]
- 6. Select Serial 1 is set to [Custom].
- 7. Select Serial 2 is set to [Control Input]
- 8. Do not change this data without taking to technical support.

Serial 1	/		<u>0</u> K
Serial Format	Custom		
Header String	AF%c		
Footer String	\v\n	<u>5</u> e	tup Response Messages
Baud Fate	9600		
Parity	none		
Stop	one		
Serial 2 Serial Format Header String	Control Input	-	
Footer String			
Baud Rate	9600	•	
Parity	none	-	
Chan			

9. Select [Setup Response Messages]

			<u>0</u> K
atch Input Message Text			New
OCAL ACK. FL:100 RO:2	200 BE:003		
utput Message Text			
Pendant Call Answered			Delete
utput Message Capcode 🛛 Input Message Text	300808 Output M	essage Text	Capcode
	0.200 BE:003 DRendant	Call Mrs. Jones	300800
ASSISTANCE FL:100 RC	200 DE.005 DE CHUAITE		
ASSISTANCE FL:100 RC LOCAL ACK. FL:100 RC	200 BE:003 DPendant	Call Answered	300808

- 10. Select [**NEW**] and enter the Input word or string to be matched. Maximum of 80 characters. [NOTE: The Input Message MUST be an EXACT match]
- 11. Enter the **Output message** you want to send to the pager when the string is matched.
- 12. Enter the **Beep Type** [A,B,C or D] at the beginning of the output message.
- 13. Enter the Message Cap Code for each message. The cap code must be from the list entered in the Cap Code screen.
- 14. To delete an entry, Select the entry to be removed and click on the [DELETE] button
- 15. Select [**NEW**] for each line to be matched.
- 16. When completed select [OK] and [OK].
- 17. If a large amount of data is to be enter, you can create a Excel spread sheet.
- 18. Open Exel and Select Open, locate the template [**Test \_Messages**] in the C:\Program Files\comppage\ If600\data directory. This file is a CSV (comma delimited File).
- 19. Make changes and save using a different name. [DO NOT ERASE OR WRITE OVER THIS FILE]

	A9 🔻 🤇	f <sub>x</sub>	
1	А	В	С
1	input	output	capcode
2	Test Input Message 1	Test Output Message 1	120002
3	Test Input Message 2	Test Output Message 2	120003
4	Test Input Message 3	Test Output Message 3	120004
5	Test Input Message 4	Test Output Message 4	120005
-			

# **Relay Operation**

The Four on board Form C relays can be activated one of two ways. The Relays will respond to a Pager Cap Code or a Word/Phase.

- 1. <u>Cap Code Programming</u> On the Cap Code Screen Select the Cap Code you want to use and then select the Relay and function. [Open, Close, Momentary Closure, Delay and the time]
- 2. Activating a N/O contact using a specific cap code.
  - a. Connect the wiring to the Common and N/O output pin.
  - b. Select [Close] for the activation cap code.
  - c. Select [Open] for the de-activation cap code

Capcode	Range	Name	Type	Serial2	Seria	Capcode and Options
300800	0		Alpha	0	1	Capcode 300800 QK
300808	0		Alpha	0	1	Dense la
-	0		Афіа	0	0	Range 0
						Name Delete
						✓ Output on Serial 1 Alpha ▼ Type
						C Output on Serial 2 Level: C A B C D
						Relay Action Time(ms) Delay(ms)
						1: Close 🔽 0 0
						2: No Action 💌 0
						3: No Action  0 0
						4: No Action  0 0

#### 3. Key Word or Phase Programming

This function is used if you want to escalate notification to another pager ID by using the Dry Contact in the Scope CX5A paging transmitter or other dry contact input devices.

Example: A certain input triggers an output that if not responded to, needs to be escalated to Another staff member after 5 minutes.

Setup

- 1. Select the [Message-relay Options]
- 2. Select [New]
- 3. Enter the **COMPLETE** translation string you want to trigger the relay, in the [**Message Text**] window.
- 4. Select the relay and [Delay Momentary].
- 5. In the [**Time(ms**)] enter the closure time. (how long the contact will be in the closed State if not reset. Recommended 3000mS (3 Second).
- 6. In the [**Delay(ms**)] enter how long after the key string has been detected will The relay wait till it reacts. 60,000 = 1 min, 180,000 = 3 min, 300,000 = 5 min.

Pendant       All       0       Delay       2000       2000         Answered       All       0       Delay       4       0         Search in Capcode       Range	TEAL	Capcode	Range	Relay1	Time1	Delay.	- Messag	e relay options			
Answered All 0 Delay 4 0 Search in Capcode Range All   Constraint Relay Action Time(ms) Delay(ms) 1: Delay Moment   2000 20000 2: No Action   0 0 3: No Action   0 0	endant 🛛	All	0	Delay	2000	20000	Messag	je Text			<u>0</u> K
Search in Capcode       Range         All       •         Relay       Action         Time(ms)       Delay(ms)         1:       Delay         Delay       Moment         2:       No         No       Action         3:       No         No       Action	Answered	All	0	Delay	4	0	Pendar	nt		-	
All       •       0         Relay       Action       Time(ms)       Delay(ms)         1:       Delay       Moment       •       20000       20000         2:       No       Action       •       0       0         3:       No       Action       •       0       0							Search	in Capcode Rang	ge		New
Relay     Action     Time(ms)     Delay(ms)       1:     Delay Moment ▼     20000     20000       2:     No Action ▼     0     0       3:     No Action ▼     0     0							AI	▼ 0			<u>D</u> elete
1:         Delay Moment ▼         2000         20000           2:         No Action ▼         0         0           3:         No Action ▼         0         0							Relay	Action	Time(ms)	Delay(ms)	
2: No Action    0 0 3: No Action    0 0							1: [	Delay Moment	2000	20000	
3: No Action 👻 0 0							2:	No Action	0	0	
							3: [	No Action	0	0	
4: No Action 💌 0 0							4: [	No Action 💌	0	0	

- 7. Select [New].
- 8. Enter the **RESET** string in the Message Text window that the relay will react to when received.
- 9. Select the same Relay that was selected in step 4 and enter [2] in the Time(ms) window.
- 10. Select [**OK**].

	Capcode	Range	Relay1	Time1	Delay.	- Messag	le relay options			
endant	All	0	Delay	2000	20000	Messag	ge Text			<u>O</u> K
nswered	All	0	Delay	4	0	Answe	red		1	
						Search	in Capcode	Range	_	New
						AI	•	)		<u>D</u> elete
						Relay	Action	Time(ms)	Delay(ms)	
						1:	Delay Moment	• 4	0	
						2:	No Action	• 0	0	
						3:	No Action	• 0	0	
						4: [	No Action	• 0	0	

# Writing Data to IF600

Once all the programming is completed, **Select File**, **Save As** and save in the Data directory. If necessary you can retrieve the data and reload the IF600.

#### Write to IF600

- 1. From the main screen select [Upload to Pager]
- 2. Follow the screen Prompts.



# **Alert Option**

The unit can be program to notify each time data is received.

- 1. Select [Alert Option].
- 2. Place a check mark by [Use Audible Alert] and select from the drop down menu the type [Double or Single].
- 3. When completed, select [Upload to Pager].

Alert options	5		
Use audible	e alert		<u>о</u> к
Beep type	Double	-	
Alert time (s)	10		

### **Creating Input Response Options**

If large amounts of data is to be inputted, using some of the following procedures will increase the accuracy and reduce the time required.

#### **Cut and Paste**

- 1. Load the comPPage's Terminal Program that is on the IF600 CD.
- 2. Select the communication port and set the baud rate. (This will be the input from the Host Equipment you want to use for string matching).
- 3. Activate the IF600 Program and select Serial Options Set Response Messages.
- 4. Both programs should be on your screen.
- 5. Create an alarm from the host. The Alarm should appear on the CommConnex Program.
- 6. Highlight the All of the data and select copy.
- 7. On the IP600 select New and paste the data in the Input Message window.
- 8. Type in the beep type (A,B,C or D) at the beginning of the output message, and enter your Cap Code.
- 9. Continue till all the data is entered.

Response Inpu	t Options		
Response Serial	hput Options		î
			<u>о</u> к
Catch Input Mess	sage Text		New
LOCAL ACK.	FL:100 RO:200 BE:003		Load CSV
Output Message	Text		
DPendant Call A	nswered		Delete
Output Message	Capcode 300808		
Input Messag	e Text	Output Message Text	Capcode
ASSISTANCE	FL:100 RO:200 BE:003	DPendant Call Mrs. Jones	300800
LOCAL ACK.	FL:100 RO:200 BE:003	DPendant Call Answered	300808
R Commission			
CommConne	ex Terminal		
CommConne File CommPc	ex Terminal		
CommConne File CommPc	ex Terminal ort		
CommConne File CommPc Dile CommPc SSISTANCE F 07.20.08 03:53:4	ex Terminal ort 		
CommConne File CommPo CommPo CommPo SSISTANCE P 17.20.08 03:53:4	ex Terminal ort 		
CommConne File CommPc	ex Terminal ort 		
CommConne File CommPo CommPo SSISTANCE 6 17.20.08 03:53:4 OCAL ACK. FL 17.20.08 03:53:5	ex Terminal ort 		
CommConne File CommPc Diffe CommPc Difference SSISTANCE F Difference Differen	Ex Terminal ort E.:100 RO:200 BE:003 4 AL. 3 .:100 RO:200 BE:003 2 EV.		
CommConne File CommPo CommPo CommPo CommConne Sile CommPo CommConne CommCone	ex Terminal ort		
CommConne File CommPc SSISTANCE F 17.20.08 03:53:4 .0CAL ACK. FL 17.20.08 03:53:5	ex Terminal ort 		
CommConne File CommPo CommPo CommConne SSISTANCE f 17.20.08 03:53:4	ex Terminal ort		
CommConne File CommPc CommConne File CommPc CommConne SSISTANCE FI 77.20.08 03:53:4 0CAL ACK. FI 77.20.08 03:53:5	ex Terminal ort 200 BC:200 BE:003 4 AL. 3 ::100 R0:200 BE:003 2 EV.		

# Technical

Communications Port 1 – RS232 Output and IF600 Programming

Communications Port 2 – RS232 Input only Matching String

Relay 1-4 Output Port - 25 Pin Connector

Input Power - 12VDC <2A

Input Cables - 10 Foot F/F Null Modem

#### Relay 1-4 Output Pins

