

APPLICATION NOTE	AN-Lift-0004v102EN
CHANGING PROTOCOLS WITH FRENIC LIFT FROM/USING SX LOADER	

Inverter type	FRENIC Lift
Software version	All versions
Required options	Not required
Related documentation	FRENIC Lift User's Manual for RS485 Communications
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Use	Public, Web
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Version	1.0.2
Languages	English

Introduction.

This application note explains how to change the communication protocol from SX loader protocol to DCP3 or to ModBus RTU using an SX loader communication frame.

Procedure.

To change (set) the communication protocol, function y10 must be set according to table 1.

Communication protocol	Value of function y10
SX loader	1
ModBus RTU	0
DCP 3	5

Table 1. Value of function y10.

- From SX loader to DCP 3 (from y10=1 to y10=5)

To change from y10=1 (SX loader) to y10=5 (DCP 3) using SX loader protocol, the following communication frame (in total 39 bytes) must be sent to the inverter:

```
96 fa 01 00 00 00 00 00 1d 00 fb 01 80 00 ff 7a 00 00 11 00 ff ff ff ff 63 11 00 01
08 00 03 01 0a 0e 02 00 05 00 46
```

- From SX loader to ModBus RTU (from y10=1 to y10=0)

To change from y10=1 (SX loader) to y10=0 (ModBus RTU) using SX loader protocol, the following communication frame (in total 39 bytes) must be sent to the inverter:

```
96 fa 01 00 00 00 00 00 1d 00 fb 01 80 00 ff 7a 00 00 11 00 ff ff ff ff 63 11 00 01 08 00 03 01 0a 0e 02 00 00 00 4b
```

When the inverter is ready to communicate using the new protocol.

In order to communicate by means of the new selected protocol it is not necessary to do anything else after sending the communication frame. Only it must be considered that the inverter will make the last reply (a frame of 39 bytes) to the SX loader communication frame and after will be ready to communicate using the new software protocol. No RESET of the inverter is needed.

Conclusion.

The procedure explained in this application note gives an easy method to change the communication protocol (function y10) via communication, giving more flexibility in some applications.

Document history.

Index	Version	Date	Applied by
1.0.0	First	31/03/2008	David Bedford
1.0.1	Second	03/04/2008	Jordi Català
1.0.2	Third	03/04/08	David Bedford