

### **KEB DIN 66019II**

### FAQ No.0008

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#### Introduction

This document describes the settings of the HMI KEB DIN 66019II driver to create a communication between a C6 HMI/Router and a KEB Ethernet/Serial device.

#### Note:

To build up a communication between an Ethernet F5 Operator and a C6 HMI/Router/IPC you need a switch between the devices.

### KEB DIN 66019II Driver Settings

1. Add the KEB DIN 66019II driver to the HMI project.

#### Real Time DB > Comm. Drivers > KEB DIN66019II



- 2. Add a station to the driver. Following settings are necessary:
  - a. Station Name: The internal name of the station
  - b. Communication Type: Serial or UDP/IP
  - c. Port: Serial COM-Port-Number
  - d. Baudrate: Baudrate of the Device
  - e. UDP/IP Address: IP-address of the device
  - f. UDP/IP Port: Port 8000 for KEB operators, 8001 for KEB PLCs
  - g. Station ID: Serial Node ID or 0 for UDP/IP



Station Properti	es			
Property	Name			
Communication Se	ttings		*	
b Communication Type	Serial			
Serial Port Setting	5			
C Port	1			
d Baudrate	38400			
UDP/IP Settings				
e UDP/IP Address	192.16	3.210.99	E	
f UDP/IP Port	8000			
KEB Settings				
g Station ID	2		-	
KEB Settings				
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Real Time DB > Variables



3. Add a new variable, choose the needed type and link it dynamically to the driver.

#### Properties Resources × VarSer0020 Variable (Tag) -🗆 💆 DummyHmi\* 🗄 🔔 Alarms (Nr. Alarms '3', Nr. Runtime Ala 8 4 B 9 0 T 1 1 Basic Scripts General E Child Projects Name VarSer0020 🗄 🧮 Data Loggers And Recipes Description Events Word (16 Bit without sign) Type 🗄 🔳 Menus Element Type for Array Byte (8 Bit without sign) Navigation Retentive not Sha... ∃ ← Networking Dynamic B E Normalizers Advanced 1 SOPC Client DA (COM) Engineering Data 🗄 📕 Parameters Access Levels 🖃 💆 Real Time DB Options E S Comm.Drivers Trace Options KEB ODBC Real Time ... Structure Prototypes Network Client 🖃 🛃 Variables (Tags) (Tags 1, Last Peek I E VarSer0020 🗄 🎦 Reports 🗄 🕔 Schedulers Screens H VarScreen\* 🗉 🦉 Shortcuts 🗄 🕌 Users And User Groups

- 4. Following settings have to be changed at the dynamic communication driver:
  - h. Station: Name of the internal station(from step 2)
  - i. Type: Defines the read- and write- level.
  - j. **Service Number**: For **Service 0**, the Set number (d) corresponds to an 8 bit mask and specify which sets are involved in the related operation. For example, the value 7 means 3 bits set to TRUE: Set 0, Set 1 and Set 2.

When the task type involves reading operations (input) only ONE bit in the mask can be set. If there are more bits set the operation won't be finished successfully.

When using task type involving only write operations (output) then the mask can contain more as one bit set to TRUE.

The value of the parameter has to be provided in **hexadecimal** format.

For **Service 1**, the Set number (d) can assume only 2 values (0 and 1) and specifies which is the destination set of the read/write operation.



If **Set = 0**, the value is read/written into the currently active set. The active set can be modified by the dedicated parameter of the inverter (**fr.04**, only in F5 inverter).

If **Set = 1**, the value is read/written into the set specified by the parameter **fr.09** (only in F5 inverter) of the inverter (indirect addressing).

For **Service 14**, the Set number (d) combines with the Address to format a CANopen compatible addressing for the inverter parameters according to the following table.

	KEB specific parameters (Manufacturer area)	Communication Profile Area or Device Pofile Area
Set	SubIndex CANopen compatible = 0	Index CANopen
Address	KEB parameter Address + 2000h	SubIndex CANopen

e. **Parameter Address**: For Service 0 and 1, the parameter address matches the KEB parameter address in hexadecimal. For service 14 see previous table.

#### Real Time DB > Variables > Dynamic

Add/Edit	Rem	ove	Property	Value
			General	10.00
E 💋 KEB	OperatorlAddr÷S0_1_20		Name FileName	KEB KEB.dll
			Version	KEB - DIN660
Task Proper	rties			23
Property E Ger	neral	Name		
	neral	Rame FC Oper	ator	
a Stati	ion ditional Variable	FC Oper		
E Ger a Stati Cond b Type	neral ion ditional Variable e	FC Oper		
E Gen a Stati Conc b Type # Ele	ion ditional Variable e ements	FC Oper		
E Ger a Stati Conc b Type # Ele Write	neral ion ditional Variable e	FC Oper		
E Ger	neral ion ditional Variable e ements e outputs at startup B Settings vice Number	FC Oper Input/O 0 False S0		
E Ger a Stati Com b Type # E Write C Serv d Set	neral ion ditional Variable e ements e outputs at startup B Settings	FC Oper Input/O 0 False S0 Service 1		

5. Now the variable is linked to the driver and can be used in the HMI project



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