

# **Type 8792**

Profinet

Objects

Document version 2.00

Supplement to Operating Instructions

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# 1 History

Document version	Date	Changes
2.00	2022-07-19	Object Route function is disabled by default Changed wording Config Client → Backup File KPopen and KPclose were interchanged zError added Fixed Description of NamurStatus (reserved bits 4-7)
1.03	2019-07-05	Added Description of Object Route Function Changed wording: SIM-Card → Config-Client
1.02	2018-02-01	Add Parameters to start Tunes from fieldbus
1.01	2017-12-21	Initial released version

## 2 Overview

Used datatypes:

UINT8	8 bit: unsigned integer
UINT16	16 bit: unsigned integer
UINT32	32 bit: unsigned integer
SINT16	16 bit: signed integer
REAL32	32 bit: float value IEEE 754
String	C-string

## 3 Objects

### 3.1 Cyclic data

Cyclic data are available on several slots / subslots.

Slot	Subslot	Index	name	description	access type	Backup File
0x01	0x01	0x0001	NamurStatus	Represents the device status <sup>1)</sup> UINT8	RO	
0x02	0x01	0x0001	CMD	Position set point REAL32 in %	RW	
0x02	0x02	0x0001	POS	Current valve position REAL32 in %	RO	

1)

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
reserved				Namur state: 0 – normal 1 – diagnose active 2 – maintenance required 3 – out of specification 4 – warning 5 - error			

## 3.2 Acyclic data

### 3.2.1 Device Data (Index 0x00\_\_)

#### 3.2.1.1 Object Route Function

The function is disabled by default.

It can be enabled via the device menu.

Slot	Subslot	Index	name	description	access type	Backup File
0x00	0x01	0x0001	Index / Subindex / NodeID	Target object: Writing Index and Subindex of the object. Index and Subindex are stored in the device description/EDS. The NodeID is always 0. Index: 2 bytes (MSB), Subindex: 1 byte, Node ID: 1 byte (always 0). For write access + 0x00000080 UINT32	RW	
0x00	0x01	0x0002	Data length (write access)	Data length of the write command in bytes, number of valid bytes is not specified for reading. UINT32	RW	
0x00	0x01	0x0003	Value UINT32	Here the value to be written is specified or the readout value is displayed. Data ≤ 4 bytes. UINT32	RW	
0x00	0x01	0x0004	Value String	Is used to read and write texts. Data > 4 bytes. STRING	RW	
0x00	0x01	0x0005	result	Process result: 0 = Command successfully executed > 0 = Error occurred during execution (see "Table 6") 0xFFFFFFFF: Read and write process not yet Concluded UINT32	RO	
0x00	0x01	0x0006	call/cancel	Execute command: 1 = execute 0 = finish UINT8	RW	

#### 3.2.1.2 Control Mode

Slot	Subslot	Index	name	description	access type	Backup File
0x00	0x01	0x0007	Control Mode		RW	

### 3.2.1.3 Buerkert Device Description Object

Slot	Subslot	Index	name	description	access type	Backup File
0x00	0x01	0x0008	Device Name	Unique device name Visible string	RO	
0x00	0x01	0x0009	Ident Number	Device ID No. UINT32	RO	
0x00	0x01	0x000A	Manufacture Date	Visible string	RO	
0x00	0x01	0x000B	Software Ident Number	ID No. of firmware UINT32	RO	
0x00	0x01	0x000C	Software Version	Version No. of firmware UINT32	RO	
0x00	0x01	0x000D	Hardware Version	Version No. of hardware UINT32	RO	
0x00	0x01	0x000E	Serial Number	Serial No. device UINT32	RO	

### 3.2.2 Position Controller Parameter (Index 0x02\_\_)

Slot	Subslot	Index	name	description	access type	Backup File
0x00	0x01	0x0201	DBDx	Deadband of the position controller in % REAL32	RW	X
0x00	0x01	0x0202	KPclose	Proportional gain for closing the valve SINT16	RW	X
0x00	0x01	0x0203	KPopen	Proportional gain for opening the valve SINT16	RW	X
0x00	0x01	0x0204	mCHARACT	Charact curve selected 0: No charact curve 1:Charact Curve 1:25 2:Charact Curve 1:33 3:Charact Curve 1:50 4:Charact Curve 25:1 5:Charact Curve 33:1 6:Charact Curve 50:1 7:FREE (See CHARACTy for defining the values) See User Manual for description of the function. SINT16	RW	X
0x00	0x01	0x0205	CUTOFFmin	Lower CUTOFF level in % SINT16	RW	X
0x00	0x01	0x0206	CUTOFFmax	Upper CUTOFF level in % SINT16	RW	X
0x00	0x01	0x0207	POSmin	Lower position for X.LIMIT in % SINT16	RW	X
0x00	0x01	0x0208	POSmax	Upper position for X.LIMIT in % SINT16	RW	X
0x00	0x01	0x0209	XTIMEopen	Limited opening time of the valve in s (X.TIME) REAL32	RW	X

0x00	0x01	0x020A	XTIMEclose	Limited closing time of the valve in s (X.TIME) REAL32	RW	X
0x00	0x01	0x020B	mDIRact	0: direct effective direction (deaerated → 0 %; aerated 100 %) 1: inverse effective direction (deaerated → 100 %; aerated 0 %) See User Manual for description of the function. SINT16	RW	X
0x00	0x01	0x020C	mSAFEpos	Position used as safepos in % SINT16	RW	X
0x00	0x01	0x020D	TUNEflags	0 if last tune was successful UINT8	RO	
0x00	0x01	0x020E	Menu_Items	Bitfield to Activate/Deactivate functions from ADD.FUNCTION menu Bit0 – Bit6: unused Bit7: CHARACT Bit8: CUTOFF Bit9: DIR.CMD Bit10: DIR.ACT Bit11: SPLTRNG Bit12: X.LIMIT Bit13: X.TIME Bit14: X.CONTROL Bit15: P.CONTROL (only 8693/8793) Bit16: SECURITY Bit17: SAFEPOS Bit18: SIG.ERROR Bit19: BINARY.IN Bit20: OUTPUT Bit21: CAL.USER Bit22: SET.FACTORY Bit23: SERVICE.BUES Bit24: EXTRAS Bit25: POS.SENSOR (only type 879X) Bit26: SERVICE Bit27: SIMULATION Bit28: DIAGNOSE Bit29: F.CONTROL (only with FMR option) UINT32	RW	X
0x00	0x01	0x020F	startTune	Start Tune via fieldbus 2: X.Tune  startTune is set back from device 0:TUNE successfully started 255:TUNE could not be started  Tune has finished when zOPmode changed back to Auto or Manual mode. Get result of last tune by reading object TUNEflags  *since Release B.02.01 UINT8	RW	
0x00	0x01	0x0210	z_OPmode	Get the current operating mode 0: Auto 1: Manual mode 2: X.Tune  *since Release B.02.01 UINT8	RO	
0x00	0x01	0x0212	CHARACTy1	freely programmable characteristic node 1 SINT16	RW	X



0x00	0x01	0x0213	CHARACTy2	<i>freely programmable characteristic node 2 SINT16</i>	RW	X
0x00	0x01	0x0214	CHARACTy3	<i>freely programmable characteristic node 3 SINT16</i>	RW	X
0x00	0x01	0x0215	CHARACTy4	<i>freely programmable characteristic node 4 SINT16</i>	RW	X
0x00	0x01	0x0216	CHARACTy5	<i>freely programmable characteristic node 5 SINT16</i>	RW	X
0x00	0x01	0x0217	CHARACTy6	<i>freely programmable characteristic node 6 SINT16</i>	RW	X
0x00	0x01	0x0218	CHARACTy7	<i>freely programmable characteristic node 7 SINT16</i>	RW	X
0x00	0x01	0x0219	CHARACTy8	<i>freely programmable characteristic node 8 SINT16</i>	RW	X
0x00	0x01	0x021A	CHARACTy9	<i>freely programmable characteristic node 9 SINT16</i>	RW	X
0x00	0x01	0x021B	CHARACTy10	<i>freely programmable characteristic node 10 SINT16</i>	RW	X
0x00	0x01	0x021C	CHARACTy11	<i>freely programmable characteristic node 11 SINT16</i>	RW	X
0x00	0x01	0x021D	CHARACTy12	<i>freely programmable characteristic node 12 SINT16</i>	RW	X
0x00	0x01	0x021E	CHARACTy13	<i>freely programmable characteristic node 13 SINT16</i>	RW	X
0x00	0x01	0x021F	CHARACTy14	<i>freely programmable characteristic node 14 SINT16</i>	RW	X
0x00	0x01	0x0220	CHARACTy15	<i>freely programmable characteristic node 15 SINT16</i>	RW	X
0x00	0x01	0x0221	CHARACTy16	<i>freely programmable characteristic node 16 SINT16</i>	RW	X
0x00	0x01	0x0222	CHARACTy17	<i>freely programmable characteristic node 17 SINT16</i>	RW	X
0x00	0x01	0x0223	CHARACTy18	<i>freely programmable characteristic node 18 SINT16</i>	RW	X
0x00	0x01	0x0224	CHARACTy19	<i>freely programmable characteristic node 19 SINT16</i>	RW	X
0x00	0x01	0x0225	CHARACTy20	<i>freely programmable characteristic node 20 SINT16</i>	RW	X
0x00	0x01	0x0226	CHARACTy21	<i>freely programmable characteristic node 21 SINT16</i>	RW	X
0x00	0x01	0x0211	mDIRcmd	0: Rise (direct effective direction) 1: Fall (inverse effective direction) See User Manual for description of the function. SINT16	RW	X
0x00	0x01	0x0227	zError	Bit0 – Bit9: internal Bit10: cable break PV Bit11: cable break CMD Bit12: cable break SP Bit13: cable break PT100 Bit 14: cable break P1 Bit15: cable break P2 Bit16: cable break MTMP Bit17 – Bit20: internal Bit21: WMS signal error Bit22: Puck signal too weak Bit23: CMD out of specification	RO	

				Bit24: SP out of specification Bit25: PV out of specification Bit26: MTMP out of specification UINT32		
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