

Signal sources for PZD send signals							<1>	
Signal	Description	PROFIdrive Signal No.	Interconnection parameter	Function diagram	Data type	Normalization		
ZSW1	Status word 1	2	r2089[0]	[2452][2453]	U16	-		
ZSW2	Status word 2	4	r2089[1]	[2454][2455]	U16	-		
NIST_A	Speed setpoint A (16 bit)	6	r0063[0]	[4715]	I16	4000 hex ≙ p2000		
NIST_B	Speed setpoint B (32 bit)	8	r0063	[4710]	I32	4000 0000 hex ≙ p2000		
G1_ZSW	Encoder 1 status word	10	r0481[0]	[4730]	U16			
G1_XIST1	Encoder 1 actual position 1	11	r0482[0]	[4704]	U32			
G1_XIST2	Encoder 1 actual position 2	12	r0483[0]	[4704]	U32			
G2_ZSW	Encoder 2 status word	14	r0481[1]	[4730]	U16			
G2_XIST1	Encoder 2 actual position 1	15	r0482[1]	[4704]	U32			
G2_XIST2	Encoder 2 actual position 2	16	r0483[1]	[4704]	U32			
G3_ZSW	Encoder 3 status word	18	r0481[2]	[4730]	U16			
G3_XIST1	Encoder 3 actual position 1	19	r0482[2]	[4704]	U32			
G3_XIST2	Encoder 3 actual position 2	20	r0483[2]	[4704]	U32			
E_DIGITAL	Digital inputs	21	r2089[2]	[2459]	U16			
XIST_A	Position actual value A	28	?	?	?	?		
IAIST_GLATT	Absolute actual current, smoothed	51	r0068[1]	[6714]	I16	4000 hex ≙ p2002		
ITACT_SMOOTH	Current actual value, torque-generating	52	r0078[1]	[5730]	I16	4000 hex ≙ p2002		
MIST_GLATT	Actual torque smoothed	53	r0080[1]	[6714]	I16	4000 hex ≙ p2003		
PIST_GLATT	Power factor, smoothed	54	r0082[1]	[6714]	I16	4000 hex ≙ p2004		
NIST_A_GLATT	Actual speed, smoothed	57	r0063[1]	[4715]	I16	4000 hex ≙ p2000		
MELD_NAMUR	VIK-NAMUR message bit bar	58	r3113	-	U16			
MELDW	Message word	102	r2089[2]	[2456]	U16			
MSET_SMOOTH	Total speed setpoint	120	r0079[1]	[5610]	I16	4000 hex ≙ p2003		
AACT_SMOOTH	Torque utilization	121	r0081	[8012]	I16	4000 hex ≙ 100%		
MT_ZSW	Measuring probe status word	131	r0688		U16			
MT1_ZS_F	Measuring probe 1 measuring time, falling edge	132	r0687[0]		U16			
MT1_ZS_S	Measuring probe 1 measuring time, rising edge	133	r0686[0]		U16			
MT2_ZS_F	Measuring probe 2 measuring time, falling edge	134	r0687[1]		U16			
MT2_ZS_S	Measuring probe 2 measuring time, rising edge	135	r0686[1]		U16			
AKTSATZ	Pos selected block	202	r2670	[3650]	U16			
PosZSW	Pos status word	204	r2683	[3645]	U16			
XistP	Pos position actual value	206	r2521	[4010]	I32	1 hex ≙ 1 LU		
FAULT_CODE	Fault code	301	r2131	[8060]	U16			
WARN_CODE	Alarm code	303	r2132	[8065]	U16			
E_ZSW1	INFEED status word (infeed)	321	r0899, r2139	[2457]	U16			
CU_ZSW	Control Unit status word	501	r2089[1]	[2458]	U16			

PROFIdrive sampling time
Refer to [1020.7]

PROFIdrive send telegram

Header

Drive object 1

Drive object 2

⋮

Drive object n

⋮

Drive object m

Trailer

Send words 1...16
p2051[0...15] WORD
r2053[0...15] WORD
p2061[0...14] DWORD
r2063[0...14] DWORD
⋮

Telegram assignment according to p0922 [2420]

<1> Data type according to the PROFIdrive profile: I16 = Integer16, I32 = Integer32, U16 = Unsigned16, U32 = Unsigned32

1		2		3		4		5		6		7		8	
DO: A_INF, B_INF, S_INF, SERVO, VECTOR										fp_2450_01_eng.vsd		Function diagram		- 2450 -	
PROFIdrive - PZD send signals interconnection										27.09.06 V02.05.00		SINAMICS S			