


Name: TR 800 Web	Type: Universal Relais	
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description	Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00
		Page: 1 von 10

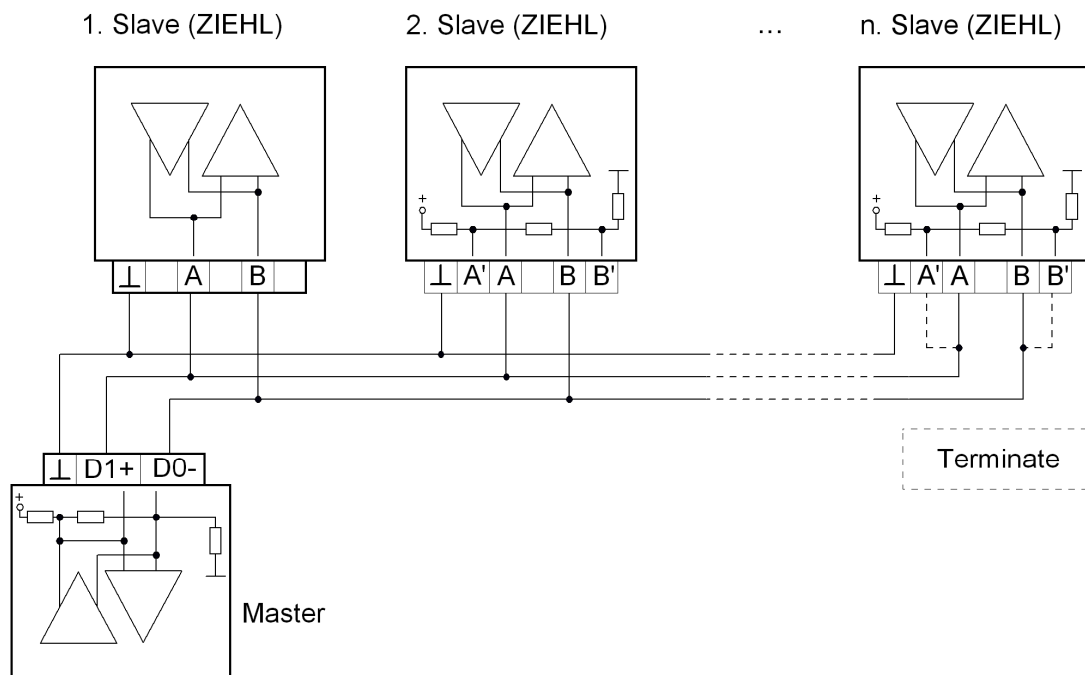
MODBUS TCP/IP

TCP Port: 502


Max. TCP connections): 5

MODBUS RTU

Connection diagram RS 485



Connection name	Modbus	Ziehl	EIA/TIA-485
- wire	D0	B (B')	A
+ wire	D1	A (A')	B


Name: TR 800 Web	Type: Universal Relais		
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description		Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00	Page: 2 von 10

Supported function codes


Function code	Name	Utilization
3 (03H)	Read Holding Registers	Read data from registers

Register of function code 3 (03H) - Read data from the registers


Address		Data type	Description	Affects
Dez	Hex			
0	0000	Signed Int16	Current value sensor 1	Current data and alarms
1	0001	Signed Int16	Current value sensor 2	
2	0002	Signed Int16	Current value sensor 3	
3	0003	Signed Int16	Current value sensor 4	
4	0004	Signed Int16	Current value sensor 5	
5	0005	Signed Int16	Current value sensor 6	
6	0006	Signed Int16	Current value sensor 7	
7	0007	Signed Int16	Current value sensor 8	
8	0008	Unsigned Int16	Sensor error sensor 1	
9	0009	Unsigned Int16	Sensor error sensor 2	
10	000A	Unsigned Int16	Sensor error sensor 3	
11	000B	Unsigned Int16	Sensor error sensor 4	
12	000C	Unsigned Int16	Sensor error sensor 5	
13	000D	Unsigned Int16	Sensor error sensor 6	
14	000E	Unsigned Int16	Sensor error sensor 7	
15	000F	Unsigned Int16	Sensor error sensor 8	
16	0010	Unsigned Int16	Error code	
17	0011	Unsigned Int16	Status alarm 1	
18	0012	Unsigned Int16	Status alarm 2	
19	0013	Unsigned Int16	Status alarm 3	
20	0014	Unsigned Int16	Status alarm 4	
21	0015	Unsigned Int16	Status delay alarm on 1	
22	0016	Unsigned Int16	Status delay alarm on 2	
23	0017	Unsigned Int16	Status delay alarm on 3	
24	0018	Unsigned Int16	Status delay alarm on 4	
25	0019	Unsigned Int16	Status delay alarm off 1	
26	001A	Unsigned Int16	Status delay alarm off 2	
27	001B	Unsigned Int16	Status delay alarm off 3	
28	001C	Unsigned Int16	Status delay alarm off 4	
29	001D	Unsigned Int16	Status locked alarm 1	
30	001E	Unsigned Int16	Status locked alarm 2	
31	001F	Unsigned Int16	Status locked alarm 3	
32	0020	Unsigned Int16	Status locked alarm 4	
33	0021	Unsigned Int16	Status relay K1	
34	0022	Unsigned Int16	Status relay K2	
35	0023	Unsigned Int16	Status relay K3	
36	0024	Unsigned Int16	Status relay K4	
37	0025	Signed Int16	Sensor 1 - Data (not scaled value)	
38	0026	Signed Int16	Sensor 2 - Data (not scaled value)	
39	0027	Signed Int16	Sensor 3 - Data (not scaled value)	
40	0028	Signed Int16	Sensor 4 - Data (not scaled value)	

Name: TR 800 Web	Type: Universal Relais	
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description	Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00
		Page: 3 von 10


41	0029	Signed Int16	Sensor 5 - Data (not scaled value)	
42	002A	Signed Int16	Sensor 6 - Data (not scaled value)	
43	002B	Signed Int16	Sensor 7 - Data (not scaled value)	
44	002C	Signed Int16	Sensor 8 - Data (not scaled value)	
255	00FF	Unsigned Int16	Sensor type sensor 1	Configuration
256	0100	Unsigned Int16	Sensor type sensor 2	
257	0101	Unsigned Int16	Sensor type sensor 3	
258	0102	Unsigned Int16	Sensor type sensor 4	
259	0103	Unsigned Int16	Sensor type sensor 5	
260	0104	Unsigned Int16	Sensor type sensor 6	
261	0105	Unsigned Int16	Sensor type sensor 7	
262	0106	Unsigned Int16	Sensor type sensor 8	
263	0107	Signed Int16	Wire compensation sensor 1	
264	0108	Signed Int16	Wire compensation sensor 2	
265	0109	Signed Int16	Wire compensation sensor 3	
266	010A	Signed Int16	Wire compensation sensor 4	
267	010B	Signed Int16	Wire compensation sensor 5	
268	010C	Signed Int16	Wire compensation sensor 6	
269	010D	Signed Int16	Wire compensation sensor 7	
270	010E	Signed Int16	Wire compensation sensor 8	
271	010F	Signed Int16	Unit sensor 1	
272	0110	Signed Int16	Unit sensor 2	
273	0111	Signed Int16	Unit sensor 3	
274	0112	Signed Int16	Unit sensor 4	
275	0113	Signed Int16	Unit sensor 5	
276	0114	Signed Int16	Unit sensor 6	
277	0115	Signed Int16	Unit sensor 7	
278	0116	Signed Int16	Unit sensor 8	
279	0117	Unsigned Int16	Scaling active sensor 1	
280	0118	Unsigned Int16	Scaling active sensor 2	
281	0119	Unsigned Int16	Scaling active sensor 3	
282	011A	Unsigned Int16	Scaling active sensor 4	
283	011B	Unsigned Int16	Scaling active sensor 5	
284	011C	Unsigned Int16	Scaling active sensor 6	
285	011D	Unsigned Int16	Scaling active sensor 7	
286	011E	Unsigned Int16	Scaling active sensor 8	
287	011F	Signed Int16	Scaling zero point sensor 1	
288	0120	Signed Int16	Scaling zero point sensor 2	
289	0121	Signed Int16	Scaling zero point sensor 3	
290	0122	Signed Int16	Scaling zero point sensor 4	
291	0123	Signed Int16	Scaling zero point sensor 5	
292	0124	Signed Int16	Scaling zero point sensor 6	
293	0125	Signed Int16	Scaling zero point sensor 7	
294	0126	Signed Int16	Scaling zero point sensor 8	
295	0127	Signed Int16	Scaling full-scale sensor 1	
296	0128	Signed Int16	Scaling full-scale sensor 2	
297	0129	Signed Int16	Scaling full-scale sensor 3	
298	012A	Signed Int16	Scaling full-scale sensor 4	
299	012B	Signed Int16	Scaling full-scale sensor 5	
300	012C	Signed Int16	Scaling full-scale sensor 6	
301	012D	Signed Int16	Scaling full-scale sensor 7	

Name: TR 800 Web	Type: Universal Relais		
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description		Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00	Page: 4 von 10


302	012E	Signed Int16	Scaling full-scale sensor 8
303	012F	Unsigned Int16	Scaling decimal point sensor 1
304	0130	Unsigned Int16	Scaling decimal point sensor 2
305	0131	Unsigned Int16	Scaling decimal point sensor 3
306	0132	Unsigned Int16	Scaling decimal point sensor 4
307	0133	Unsigned Int16	Scaling decimal point sensor 5
308	0134	Unsigned Int16	Scaling decimal point sensor 6
309	0135	Unsigned Int16	Scaling decimal point sensor 7
310	0136	Unsigned Int16	Scaling decimal point sensor 8
311	0137	Unsigned Int16	Alarm 1 active sensor 1
312	0138	Unsigned Int16	Alarm 1 active sensor 2
313	0139	Unsigned Int16	Alarm 1 active sensor 3
314	013A	Unsigned Int16	Alarm 1 active sensor 4
315	013B	Unsigned Int16	Alarm 1 active sensor 5
316	013C	Unsigned Int16	Alarm 1 active sensor 6
317	013D	Unsigned Int16	Alarm 1 active sensor 7
318	013E	Unsigned Int16	Alarm 1 active sensor 8
319	013F	Signed Int16	Value - alarm 1 on sensor 1
320	0140	Signed Int16	Value - alarm 1 on sensor 2
321	0141	Signed Int16	Value - alarm 1 on sensor 3
322	0142	Signed Int16	Value - alarm 1 on sensor 4
323	0143	Signed Int16	Value - alarm 1 on sensor 5
324	0144	Signed Int16	Value - alarm 1 on sensor 6
325	0145	Signed Int16	Value - alarm 1 on sensor 7
326	0146	Signed Int16	Value - alarm 1 on sensor 8
327	0147	Signed Int16	Value - alarm 1 off sensor 1
328	0148	Signed Int16	Value - alarm 1 off sensor 2
329	0149	Signed Int16	Value - alarm 1 off sensor 3
330	014A	Signed Int16	Value - alarm 1 off sensor 4
331	014B	Signed Int16	Value - alarm 1 off sensor 5
332	014C	Signed Int16	Value - alarm 1 off sensor 6
333	014D	Signed Int16	Value - alarm 1 off sensor 7
334	014E	Signed Int16	Value - alarm 1 off sensor 8
335	014F	Signed Int16	Value - alarm 1 on (Night) sensor 1
336	0150	Signed Int16	Value - alarm 1 on (Night) sensor 2
337	0151	Signed Int16	Value - alarm 1 on (Night) sensor 3
338	0152	Signed Int16	Value - alarm 1 on (Night) sensor 4
339	0153	Signed Int16	Value - alarm 1 on (Night) sensor 5
340	0154	Signed Int16	Value - alarm 1 on (Night) sensor 6
341	0155	Signed Int16	Value - alarm 1 on (Night) sensor 7
342	0156	Signed Int16	Value - alarm 1 on (Night) sensor 8
343	0157	Signed Int16	Value - alarm 1 off (Night) sensor 1
344	0158	Signed Int16	Value - alarm 1 off (Night) sensor 2
345	0159	Signed Int16	Value - alarm 1 off (Night) sensor 3
346	015A	Signed Int16	Value - alarm 1 off (Night) sensor 4
347	015B	Signed Int16	Value - alarm 1 off (Night) sensor 5
348	015C	Signed Int16	Value - alarm 1 off (Night) sensor 6
349	015D	Signed Int16	Value - alarm 1 off (Night) sensor 7
350	015E	Signed Int16	Value - alarm 1 off (Night) sensor 8
351	015F	Unsigned Int16	Alarm 2 active sensor 1
352	0160	Unsigned Int16	Alarm 2 active sensor 2
353	0161	Unsigned Int16	Alarm 2 active sensor 3

Name: TR 800 Web	Type: Universal Relais		
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description		Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00	Page: 5 von 10


354	0162	Unsigned Int16	Alarm 2 active sensor 4
355	0163	Unsigned Int16	Alarm 2 active sensor 5
356	0164	Unsigned Int16	Alarm 2 active sensor 6
357	0165	Unsigned Int16	Alarm 2 active sensor 7
358	0166	Unsigned Int16	Alarm 2 active sensor 8
359	0167	Signed Int16	Value - alarm 2 on sensor 1
360	0168	Signed Int16	Value - alarm 2 on sensor 2
361	0169	Signed Int16	Value - alarm 2 on sensor 3
362	016A	Signed Int16	Value - alarm 2 on sensor 4
363	016B	Signed Int16	Value - alarm 2 on sensor 5
364	016C	Signed Int16	Value - alarm 2 on sensor 6
365	016D	Signed Int16	Value - alarm 2 on sensor 7
366	016E	Signed Int16	Value - alarm 2 on sensor 8
367	016F	Signed Int16	Value - alarm 2 off sensor 1
368	0170	Signed Int16	Value - alarm 2 off sensor 2
369	0171	Signed Int16	Value - alarm 2 off sensor 3
370	0172	Signed Int16	Value - alarm 2 off sensor 4
371	0173	Signed Int16	Value - alarm 2 off sensor 5
372	0174	Signed Int16	Value - alarm 2 off sensor 6
373	0175	Signed Int16	Value - alarm 2 off sensor 7
374	0176	Signed Int16	Value - alarm 2 off sensor 8
375	0177	Signed Int16	Value - alarm 2 on (Night) sensor 1
376	0178	Signed Int16	Value - alarm 2 on (Night) sensor 2
377	0179	Signed Int16	Value - alarm 2 on (Night) sensor 3
378	017A	Signed Int16	Value - alarm 2 on (Night) sensor 4
379	017B	Signed Int16	Value - alarm 2 on (Night) sensor 5
380	017C	Signed Int16	Value - alarm 2 on (Night) sensor 6
381	017D	Signed Int16	Value - alarm 2 on (Night) sensor 7
382	017E	Signed Int16	Value - alarm 2 on (Night) sensor 8
383	017F	Signed Int16	Value - alarm 2 off (Night) sensor 1
384	0180	Signed Int16	Value - alarm 2 off (Night) sensor 2
385	0181	Signed Int16	Value - alarm 2 off (Night) sensor 3
386	0182	Signed Int16	Value - alarm 2 off (Night) sensor 4
387	0183	Signed Int16	Value - alarm 2 off (Night) sensor 5
388	0184	Signed Int16	Value - alarm 2 off (Night) sensor 6
389	0185	Signed Int16	Value - alarm 2 off (Night) sensor 7
390	0186	Signed Int16	Value - alarm 2 off (Night) sensor 8
391	0187	Unsigned Int16	Alarm 3 active sensor 1
392	0188	Unsigned Int16	Alarm 3 active sensor 2
393	0189	Unsigned Int16	Alarm 3 active sensor 3
394	018A	Unsigned Int16	Alarm 3 active sensor 4
395	018B	Unsigned Int16	Alarm 3 active sensor 5
396	018C	Unsigned Int16	Alarm 3 active sensor 6
397	018D	Unsigned Int16	Alarm 3 active sensor 7
398	018E	Unsigned Int16	Alarm 3 active sensor 8
399	018F	Signed Int16	Value - alarm 3 on sensor 1
400	0190	Signed Int16	Value - alarm 3 on sensor 2
401	0191	Signed Int16	Value - alarm 3 on sensor 3
402	0192	Signed Int16	Value - alarm 3 on sensor 4
403	0193	Signed Int16	Value - alarm 3 on sensor 5
404	0194	Signed Int16	Value - alarm 3 on sensor 6
405	0195	Signed Int16	Value - alarm 3 on sensor 7

Name: TR 800 Web	Type: Universal Relais		
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description		Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00	Page: 6 von 10

406	0196	Signed Int16	Value - alarm 3 on sensor 8
407	0197	Signed Int16	Value - alarm 3 off sensor 1
408	0198	Signed Int16	Value - alarm 3 off sensor 2
409	0199	Signed Int16	Value - alarm 3 off sensor 3
410	019A	Signed Int16	Value - alarm 3 off sensor 4
411	019B	Signed Int16	Value - alarm 3 off sensor 5
412	019C	Signed Int16	Value - alarm 3 off sensor 6
413	019D	Signed Int16	Value - alarm 3 off sensor 7
414	019E	Signed Int16	Value - alarm 3 off sensor 8
415	019F	Signed Int16	Value - alarm 3 on (Night) sensor 1
416	01A0	Signed Int16	Value - alarm 3 on (Night) sensor 2
417	01A1	Signed Int16	Value - alarm 3 on (Night) sensor 3
418	01A2	Signed Int16	Value - alarm 3 on (Night) sensor 4
419	01A3	Signed Int16	Value - alarm 3 on (Night) sensor 5
420	01A4	Signed Int16	Value - alarm 3 on (Night) sensor 6
421	01A5	Signed Int16	Value - alarm 3 on (Night) sensor 7
422	01A6	Signed Int16	Value - alarm 3 on (Night) sensor 8
423	01A7	Signed Int16	Value - alarm 3 off (Night) sensor 1
424	01A8	Signed Int16	Value - alarm 3 off (Night) sensor 2
425	01A9	Signed Int16	Value - alarm 3 off (Night) sensor 3
426	01AA	Signed Int16	Value - alarm 3 off (Night) sensor 4
427	01AB	Signed Int16	Value - alarm 3 off (Night) sensor 5
428	01AC	Signed Int16	Value - alarm 3 off (Night) sensor 6
429	01AD	Signed Int16	Value - alarm 3 off (Night) sensor 7
430	01AE	Signed Int16	Value - alarm 3 off (Night) sensor 8
431	01AF	Unsigned Int16	Alarm 4 active sensor 1
432	01B0	Unsigned Int16	Alarm 4 active sensor 2
433	01B1	Unsigned Int16	Alarm 4 active sensor 3
434	01B2	Unsigned Int16	Alarm 4 active sensor 4
435	01B3	Unsigned Int16	Alarm 4 active sensor 5
436	01B4	Unsigned Int16	Alarm 4 active sensor 6
437	01B5	Unsigned Int16	Alarm 4 active sensor 7
438	01B6	Unsigned Int16	Alarm 4 active sensor 8
439	01B7	Signed Int16	Value - alarm 4 on sensor 1
440	01B8	Signed Int16	Value - alarm 4 on sensor 2
441	01B9	Signed Int16	Value - alarm 4 on sensor 3
442	01BA	Signed Int16	Value - alarm 4 on sensor 4
443	01BB	Signed Int16	Value - alarm 4 on sensor 5
444	01BC	Signed Int16	Value - alarm 4 on sensor 6
445	01BD	Signed Int16	Value - alarm 4 on sensor 7
446	01BE	Signed Int16	Value - alarm 4 on sensor 8
447	01BF	Signed Int16	Value - alarm 4 off sensor 1
448	01C0	Signed Int16	Value - alarm 4 off sensor 2
449	01C1	Signed Int16	Value - alarm 4 off sensor 3
450	01C2	Signed Int16	Value - alarm 4 off sensor 4
451	01C3	Signed Int16	Value - alarm 4 off sensor 5
452	01C4	Signed Int16	Value - alarm 4 off sensor 6
453	01C5	Signed Int16	Value - alarm 4 off sensor 7
454	01C6	Signed Int16	Value - alarm 4 off sensor 8
455	01C7	Signed Int16	Value - alarm 4 on (Night) sensor 1
456	01C8	Signed Int16	Value - alarm 4 on (Night) sensor 2
457	01C9	Signed Int16	Value - alarm 4 on (Night) sensor 3

Name: TR 800 Web	Type: Universal Relais	
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description	Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00
		Page: 7 von 10

458	01CA	Signed Int16	Value - alarm 4 on (Night) sensor 4	
459	01CB	Signed Int16	Value - alarm 4 on (Night) sensor 5	
460	01CC	Signed Int16	Value - alarm 4 on (Night) sensor 6	
461	01CD	Signed Int16	Value - alarm 4 on (Night) sensor 7	
462	01CE	Signed Int16	Value - alarm 4 on (Night) sensor 8	
463	01CF	Signed Int16	Value - alarm 4 off (Night) sensor 1	
464	01D0	Signed Int16	Value - alarm 4 off (Night) sensor 2	
465	01D1	Signed Int16	Value - alarm 4 off (Night) sensor 3	
466	01D2	Signed Int16	Value - alarm 4 off (Night) sensor 4	
467	01D3	Signed Int16	Value - alarm 4 off (Night) sensor 5	
468	01D4	Signed Int16	Value - alarm 4 off (Night) sensor 6	
469	01D5	Signed Int16	Value - alarm 4 off (Night) sensor 7	
470	01D6	Signed Int16	Value - alarm 4 off (Night) sensor 8	
471	01D7	Unsigned Int16	Delay Alarm on alarm 1	
472	01D8	Unsigned Int16	Delay Alarm on alarm 2	
473	01D9	Unsigned Int16	Delay Alarm on alarm 3	
474	01DA	Unsigned Int16	Delay Alarm on alarm 4	
475	01DB	Unsigned Int16	Delay Alarm off alarm 1	
476	01DC	Unsigned Int16	Delay Alarm off alarm 2	
477	01DD	Unsigned Int16	Delay Alarm off alarm 3	
478	01DE	Unsigned Int16	Delay Alarm off alarm 4	
479	01DF	Unsigned Int16	alarm on error alarm 1	
480	01E0	Unsigned Int16	alarm on error alarm 2	
481	01E1	Unsigned Int16	alarm on error alarm 3	
482	01E2	Unsigned Int16	alarm on error alarm 4	
483	01E3	Unsigned Int16	alarm locked alarm 1	
484	01E4	Unsigned Int16	alarm locked alarm 2	
485	01E5	Unsigned Int16	alarm locked alarm 3	
486	01E6	Unsigned Int16	alarm locked alarm 4	
487	01E7	Unsigned Int16	relay on alarm 1	
488	01E8	Unsigned Int16	relay on alarm 2	
489	01E9	Unsigned Int16	relay on alarm 3	
490	01EA	Unsigned Int16	relay on alarm 4	
491	01EB	Unsigned Int16	simulated sensor	Other
492	01EC	Unsigned Int16	Data- counter	

Name: TR 800 Web	Type: Universal Relais	
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description	Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00
		Page: 8 von 10

Values of the register

Sensor Type	
Value	meaning
0	nc
1	Pt 100
2	Pt 1000
3	KTY 83
4	KTY 84
5	Thermocouple B
6	Thermocouple E
7	Thermocouple J
8	Thermocouple K
9	Thermocouple L
10	Thermocouple N
11	Thermocouple R
12	Thermocouple S
13	Thermocouple T
14	Voltage 0 .. 10V
15	Current 0 .. 20mA
16	Current 4 .. 20mA
17	Resistor 500 Ohm
18	Resistor 30 kOhm
19	Difference of two inputs

Wire compensation	
Value	meaning
-1	3-wire
0	0 Ohm
1	0,1 Ohm
:	:
1000	100,0 Ohm

Unit	
Value	meaning
0	°C
1	°F
2	V
3	mA
4	Ohm
5	kOhm
6	%
7	User

Scaling on	
Value	meaning
0	inactive
1	active

Scaling zero point	
Scaling full-scale	
Value	meaning
-1999	
:	
9999	

Scaling Decimal point	
Value	meaning
0	xxxx
1	xxx.x
2	xx.xx
3	x.xxx


Alarm active	
Value	meaning
0	off
1	on
Value -	Alarm x on Alarm x off Alarm x on (night) Alarm x off (night)
-9999	
:	
30000	

delay alarm on delay alarm off	
Value	meaning
0	[s]
:	:
9999	[s]

Alarm on error	
Value	meaning
0	off
1	on

Alarm locked	
Value	meaning
0	off
1	on

Relay on alarm	
Value	meaning
0	de-energized
1	energized

Name: TR 800 Web	Type: Universal Relais	
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description	Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00
		Page: 9 von 10

Data- sensor 1 .. 8

Data (scaled value)	
Data (not scaled value)	
Value	meaning
-9999	
:	
30000	
32767	Sensor short-circuit:
32766	Sensor break:
32765	Thermocouple poled wrong:
32750	Overflow:
32749	Underflow:
32748	Sensor nc:


Sensor error	
Value	meaning
0	OK
1	Sensor short-circuit
2	Sensor break:
3	
4	Thermocouple connected wrong:

Sensor Simulation

Simulated sensor	
Value	meaning
bit 0	Sensor 1
:	:
bit 7	Sensor 8

Status

Status alarm on	
Status delay alarm on	
Status delay alarm off	
Status locked alarm	
Value	meaning
0	off
bit0	Alarm sensor 1
bit1	Alarm sensor 2
bit2	Alarm sensor 3
bit3	Alarm sensor 4
bit4	Alarm sensor 5
bit5	Alarm sensor 6
bit6	Alarm sensor 7
bit7	Alarm sensor 8
bit8	Device error

Name: TR 800 Web	Type: Universal Relais	
Edited: (date / name) 16.03.2010 Fu	Modbus protocol description	Drawing no.: 12280-1605-01
	EA-Nr.: 1451	Replace for: 12280-1605-00
		Page: 10 von 10

Other

Status relay	
Value	meaning
0	de-energized
1	energized

Data- counter	
Value	meaning
0	is incremented at each measurement
:	
65535	

Error code	
Value	meaning
0	No error
bit 0	AD-error (Er 8)
bit 1	Internal communication error (Er 5)
bit 2	Internal communication error (Er 6)
bit 3	EEPROM error (Er 9)