TDOU-33 (UV/OV) RS-485 Protocol Address Mapping Data

	Resisters (Fun	ction		,		ad M											
Code	Address			arame			By	tes	R/	W		Unit	/ Ana	lysis			Data
	30001-2	_	1st Vo	-				1	Re	ad			[x 1V]			Long	
	30003-4	1st Voltage B (BC)						1	Re	ad			[x 1V]	-			Long
	30005-6	1st Voltage C (CA)					۷			ad			[x 1V]				Long
	30007		2nd Vo			,	2			ad			x 0.1\	-			nsigne
04	30008		2nd Vo	-		,		2		ad			x 0.1\	-			nsigne
	30009	2	2nd Vo	-		4)	2		Re	ad		[]	x 0.1\	/]			nsigne
	30010			np Sta			2			ad			Bit				nsigne
	30011			ult Sta			2		Re	ad			Bit				nsigne
	30012		Syst	em S	tatus		2			ad			Bit			U	nsigne
							: Ana	·	-								
30010) Lamp Status	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	RUN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	PICK-UP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	COMM			0	0	0	0	0	0	0	0	0	0	0	1	0	0
	A (AB)		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	B (BC)			0	0	0	0	0	0	0	0	0	1	0	0	0	0
	C (CA)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	UV	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	VO	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	INST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3001	1 Fault Status	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
	RUN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	PICK-UP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	0	0
	A (AB) B (BC)	0	0	0	0	-	0	0	0	0	0	0	-	1 0	0	0	0
	. ,	0	0	0	0	0	0	0	0	0	0	-	1 0	0	0	0	0
	C (CA)	0	0	0	0	0	0	0	0	0	1	1 0	0	0	0	0	0
	0v 0v	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	INST	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
20042.0	System Status	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
300123	System Status	0	0	0	0	0	0	9	0	0	0	о 0	4	<u> </u>	2	0	1
	System Error	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	System LITU	U	0	U	0	U	U	U	U	U	U	U	U	U	U		U

1. Read Input Resisters (Function code 04) : Read Measuremet Value

2. Read Holding Resisters (Function code 03) : Read Setting Value

Preset Single Resister / Multiple Resisters (Function code 06 / 16) : Write Setting Value

Fleset Single Resister / Multiple Resisters (Function code 06 / 16). Whe Setting Value												
Code	Address	Parameter	Bytes	R/W	Unit / Analysis	Data						
	40001	Frequency set	2	R/W	0=50Hz / 1=60Hz	Unsigned						
	40002	PT Ratio set (1st)	2	R/W	[x 10V]	Unsigned						
	40003	PT Ratio set (2nd)	2	R/W	[x 1V]	Unsigned						
	40004	Pulse out set	2	R/W	[x 10ms]	Unused						
	40005	System Type set	2	R/W	0=3P3L / 1=3P4L	Unsigned						
	40006	TOV set	2	R/W	[x 1V]	Unsigned						
03	40007	TOV Lock set	2	R/W	0=No / 1=Yes	Unsigned						
	40008	TOV Lever set	2	R/W	[x 0.1]	Unsigned						
06 / 16	40009	TOV Curve set	2	R/W	0=DT / 1=NI	Unsigned						
	40010	TUV set	2	R/W	[x 1V]	Unsigned						
	40011	TUV Lock set	2	R/W	0=No / 1=Yes	Unsigned						
	40012	TUV Lever set	2	R/W	[x 0.1]	Unsigned						
	40013	TUV Curve set	2	R/W	0=DT / 1=NI	Unsigned						
	40014	IUV set	2	R/W	[x 1V]	Unsigned						
	40015	IUV Lock set	2	R/W	0=No / 1=Yes	Unsigned						

3. Read Holdir	ng Resisters (F	unction code 03) : Read	Fault Val	ue	* Start Address : 400	16
Code	Address	Parameter	Bytes	R/W	Unit / Analysis	Data
03	40016	Sum of Fault	2	Read	ea [1st byte]	Unsigned

03			40016)	R	ecent	Fault	Reco	rd	-	2	RE	ad	Addr	ess [2	2nd b	yte] ^{*Note1}	Unsigned		
											lysis]								
40016 Bit		[1st byte] Sum of Fault								[2nd byte] Recent Fault Record *Note1							Л	0016 Bit		
40010 Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	4	40010 Bit		
1ea	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1st Faul	t (40017~022)		
2ea	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2nd Fault (40023~028			
3ea	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	3rd Fault (40029~034			
4ea	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	4th Faul	t (40035~040)		
:			-	-	:		-				-							:		
:					:													:		
30ea	0	0	0	1	1	1	1	0	0	0	0	1	1	1	0	1	30th Fau	lt (40191~196)		
31ea	0	0	0	1	1	1	1	1	0	0	0	1	1	1	1	0	31th Fault (40197~202			
32ea	0	0	1	0	0	0	0	0	0	0	0	1	1	1	1	1	32th Fault (40203~208)			

Code	Address	Parameter	Bytes	R/W	Unit / Analysis	Data	
	40017	1st Operating Relay	2	Read	Bit	Unsigne	
	40018	1st Operating Phase	2	Read	Bit	Unsigne	
	40019	1st Operating Voltage	2	Read	[x 0.1V]	Unsigne	
	40020	1st Operating Time	2	Read	Cycle **Note2	Unsigne	
	40023	2nd Operating Relay	2	Read	Bit	Unsigne	
	40024	2nd Operating Phase	2	Read	Bit	Unsigne	
	40025	2nd Operating Voltage	2	Read	[x 0.1V]	Unsigne	
	40026	2nd Operating Time	2	Read	Cycle **Note2	Unsigne	
	40029~032	3rd Fault Data	12	Read		Unsigne	
	40035~038	4th Fault Data	12	Read		Unsigne	
	:	:		Read		Unsigne	
	40191~194	30th Fault Data	12	Read		Unsigne	
	40197~200	31st Fault Data	12	Read		Unsigne	
03	40203~206	32nd Fault Data	12	Read		Unsigne	
	40211		2	Read	year	Unsigne	
	40212		2	Read	month	Unsigne	
	40213	Ant Envilt Time	2	Read	day	Unsigne	
	40214	1st Fault Time	2	Read	hour	Unsigne	
	40215		2	Read	minute	Unsigne	
	40216		2	Read	second	Unsigne	
	40217~222	2nd Fault Time	6	Read	yy/mm/dd/ hh:mm:ss	Unsigne	
	40223~228	3rd Fault Time	6	Read	yy/mm/dd/ hh:mm:ss	Unsigne	
	40229~234	4th Fault Time	6	Read	yy/mm/dd/ hh:mm:ss	Unsigne	
	:	:		Read		Unsigne	
	40385~390	30th Fault Time	6	Read	yy/mm/dd/ hh:mm:ss	Unsigne	
	40391~396	31st Fault Time	6	Read	yy/mm/dd/ hh:mm:ss	Unsigned	
	40397~402	32nd Fault Time	6	Read	yy/mm/dd/ hh:mm:ss	Unsigne	

								1								
40017 / 40023 / Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
TOV	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
IOV	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
TUV	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
IUV	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
40018 / 40024 / Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
A (AB)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
B (BC)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
C (CA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1

4. Force Single Coil (Function code 05) : Write Remote Command

Code	Address	Parameter	Bytes	R/W	Unit / Analysis	Data
05	X0001	Clear Fault Record	2	Write	1=Clear	Unsigned

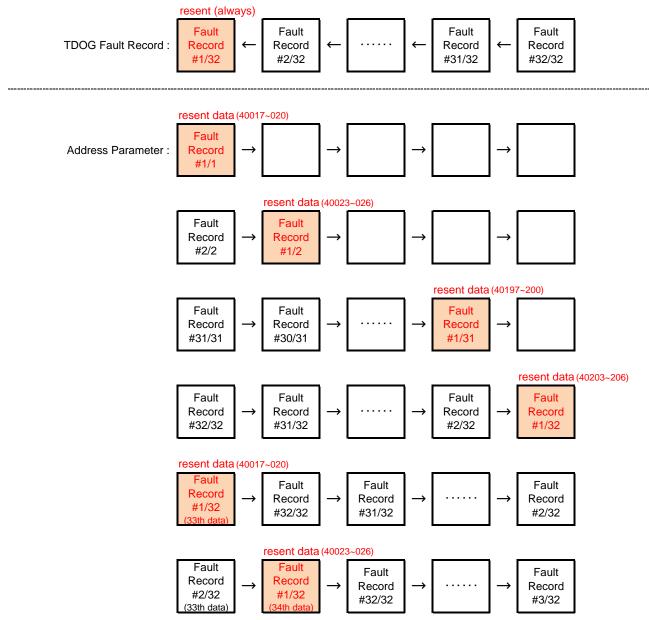
5. MODBUS Exception Responses

- Exception Response

Slave Address	Function Code	Exception Code	CRC	
0x□□	0x	0x□□		
1 Byte	1 Byte	1 Byte	2 Bytes	
- Exception Codes				
Code	Name			
01	Illegal Function			
02	Illegal Data Address			
03	Illegal Data Value			
02	Time-out			

% Note 1

- Recent Fault of Address 40016 is according to circle round method.



* Note 2 : Raise fractions not lower than 0.5 to a unit.

- If operating time is 30ms Cycle = operating time / Period = operating time * frequency = 0.03 * 60 = 1.8 Display 2 cycle