#### MODBUS TABLE ORGANIZATION

Starting Address of the Group Registers (Dec)	Starting Address of the Group Registers (Hex)	System Version (Release)	System Version (Build)	Group Name (Text)	Group Code (Hex)	Group Complexity (Hex)	Group Version (Hex)
16384	4000	1	5	State of Breaker	51 02	10	100
20480	5000	1	5	Three-phase Electric Measurement	71 03	20	100
29184	7200	1	5	Three-phase Electric Protection	73 03	10	100
32768	8000	1	5	Single-channel Thermal Measurement	81 00	10	100

#### MODBUS PROTOCOL DETAILS

Function Code (Dec)	Exception Codes (Dec)	Data Encoding
2 (Read Discrete Inputs)	1, 2, 3	"Big Endian" (most
4 (Read Input Registers)	1, 2, 3	significant byte first)

#### MODBUS OVER SERIAL DETAILS

Physical Layer	Trasmission Modes	Device Addressing	Baud Rates (bit/s)	Data Bits	Data bits trasmission sequence	Parity	Stop Bits
standard EIA/TIA 485 (RS-485) two-wire configuration	RTU	1÷247	programmable (9600, 38400, 115200)	8	Least significant bit first	no	1

## MASTER/SLAVE COMMUNICATION TIMING

Timer Description	Timer Value (msec)						
Inter-character time-out	< 1,5 character times						
Response delay (from master request)	-						
Delay Time (between two master trasmissions)	-						

REFER ALSO TO:

www.modbus.org

MODBUS over serial line specification and implementation guide V1.02
 MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b

## DMX<sup>3</sup> Protection Unit Cat.No. 288 04 with COM Options Cat No. 288 05 - ModbusTable LGR EN v1.00.xls

Register Number	Register Address (Dec)	Register Address (Hex)	Dimension [bit]	Description	Note	Read Function Codes (Dec)	Data Storing
16385	16384	4000	3	State of Breaker			
16385	16384	4000	1	Open	The information reported here "self-resets" when the condition that generated it ends.	2	
16386	16385	4001	1	Closed	The information reported here "self-resets" when the condition that generated it ends.	2	
16387	16386	4002	1	Tripped	The information reported here "self-resets" when the condition that generated it ends.	2	
29185	29184	7200	13	Three-phase Electric Protection		_	
29185	29184	7200	1	Overload pre-alarm (threshold I1)	The information reported here "self-resets" when the condition that generated it ends	2	
29186	29185	7200	1	Overload pre-alarm ( <a href="https://www.communication.com">https://www.communication.com</a> Overload pre-alarm ( <a href="https://www.communication.com">https://www.communication.com</a> Overload pre-alarm ( <a href="https://www.communication.com">https://www.communication.com</a>	The information reported here "self-resets" when the condition that generated it ends	2	
29187	29185	7201	1	Over-temperature alarm (>threshold T)	The information reported here "self-resets" when the condition that generated it ends	2	
29188	29187	7202	1	RESERVED (returns "0")	The information reported here bein rebeted when the condition that generated it chash	2	
29189	29188	7204	1	Overload P. Relay Tripped (no phase indication)	The information reported here is maintained even when the condition that generated it ends. The "restore" conditions can be (equivalent, in alternative): <ul> <li>the detection of the device in Closed state</li> <li>the detection of a minimum current value on the phases.</li> </ul> The presence of Switch State Functionality is therefore NOT binding (Example: if the switch goes back to Open => the Tripped Relay signal must be maintained up until the reset condition intervenes)	2	Y
29190	29189	7205	1	Short circuit P. Relay Tripped (no phase indication)	<ul> <li>The information reported here is maintained even when the condition that generated it ends. The "restore" conditions can be (equivalent, in alternative):</li> <li>the detection of the device in Closed state</li> <li>the detection of a minimum current value on the phases.</li> <li>The presence of Switch State Functionality is therefore NOT binding (Example: if the switch goes back to Open =&gt; the Tripped Relay signal must be maintained up until the reset condition intervenes)</li> </ul>	2	Y
29191	29190	7206	1	Device Protection Relay Tripped ("III element", no phase indications)	<ul> <li>The information reported here is maintained even when the condition that generated it ends. The "restore" conditions can be (equivalent, in alternative):</li> <li>the detection of the device in Closed state</li> <li>the detection of a minimum current value on the phases.</li> <li>The presence of Switch State Functionality is therefore NOT binding (Example: if the switch goes back to Open =&gt; the Tripped Relay signal must be maintained up until the reset condition intervenes)</li> </ul>	2	Y
29192	29191	7207	1	Earth Fault Tripped	<ul> <li>The information reported here is maintained even when the condition that generated it ends. The "restore" conditions can be (equivalent, in alternative):</li> <li>the detection of the device in Closed state</li> <li>the detection of a minimum current value on the phases.</li> <li>The presence of Switch State Functionality is therefore NOT binding (Example: if the switch goes back to Open =&gt; the Tripped Relay signal must be maintained up until the reset condition intervenes)</li> </ul>	2	Y
29193	29192	7208	1	Over-temperature P. Relay tripped	<ul> <li>The information reported here is maintained even when the condition that generated it ends. The "restore" conditions can be (equivalent, in alternative):</li> <li>the detection of the device in Closed state</li> <li>the detection of a minimum current value on the phases.</li> <li>The presence of Switch State Functionality is therefore NOT binding (Example: if the switch goes back to Open =&gt; the Tripped Relay signal must be maintained up until the reset condition intervenes)</li> </ul>	2	Y
29194	29193	7209	1	Warning Neutral protection disabled ( $0 = no$ warning, $1 = warning on - Neutral = not protected)$	The information reported here "self-resets" when the condition that generated it ends.	2	
29195	29194	720A	1	Warning Neutral protection reduced ( $0 = no$ warning, $1 = warning on - Neutral = 50%)$	The information reported here "self-resets" when the condition that generated it ends.	2	
29196	29195	720B	1	Warning Instantaneaus Shortcircuit protection ( $0 = no$ warning, $1 = warning$ on - Ii = Icw)	The information reported here "self-resets" when the condition that generated it ends.	2	
29197	29196	720C	1	Warning Ground fault disabled ( $0 = no$ warning, $1 = warning on - Ig = OFF$ )	The information reported here "self-resets" when the condition that generated it ends.	2	

## DISCRETE INPUT - Bits (R)

# DMX<sup>3</sup> Protection Unit Cat.No. 288 04 with COM Options Cat No. 288 05 - ModbusTable LGR EN v1.00.xls

Register Number	Register Address (Dec)	Dimension [bit]	Description		Write Function Codes (Dec)	Data Storing
			(no COILS availables)			

## COILS - Bits (R&W)

Register	Destination	Desite				-	8 1					
rumber	Register Address	Register Address	Dimension [word]	Bit Position	Description	Туре	Scale	Unit	Range	Note	Read Function	Data Storing
	(Dec)	(Hex)									Code (Dec)	
16385	16384	4000	6		State of Breaker						(Bec)	
16385	16384	4000	1		RESERVED (returns error 84h)							
16386 16387	16385 16386	4001 4002	1		Operations counter RESERVED (return "8000h")		1			Total value, may not be zeroed	4	Y
16388	16387	4003	1		Breaker Features - Rated Current		1	A			4	Y
16389	16388	4004	1	30	Breaker Features - Device Type and number of Poles Poles: number						4	Y
				4	Poles: neutral position (left(1)/right(0))							
				75	RESERVED (returns"0") Type of device: Isolating switch (0)/ Automatic (1)							
				9	Type of device: Repulsive Breaker (0)/Non Repulsive Breaker (1)							
16390	16389	4005	1	1510	RESERVED (returns"0") Tripping Features - Breaking capacity		0,01	kA			4	Y
20481 20481	20480 20480	5000 5000	70		Three-phase Electric Measurement Phase 1 current value (R)	unsigned integer		Δ		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20482	20481	5001	1		Phase 2 current value (S)	unsigned integer		A		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20483 20484	20482 20483	5002 5003	1		Phase 3 current value (T) Neutral current value	unsigned integer		A		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20485	20484	5004	1		Earth current value	unsigned integer		A		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20486	20485	5005 5006	1 3		Differential current value RESERVED (return "8000h")	unsigned integer		mA		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20490	20489	5009	1		1-N Voltage	unsigned integer		V		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20491 20492	20490 20491	500A 500B	1		2-N Voltage 3-N Voltage	unsigned integer unsigned integer		V		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20493	20492	500C	1		1-2 Voltage	unsigned integer		V		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20494 20495	20493 20494	500D 500E	1		1-3 Voltage 2-3 Voltage	unsigned integer unsigned integer		V		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	
20496	20495	500F	4		RESERVED (return "8000h")			V			4	
20500 20501	20499 20500	5013 5014	1		Three-phase active power Three-phase reactive power	signed integer signed integer		kW kvar		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20502	20501	5015	1		Three-phase apparent power	signed integer	0.01	kVA		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20503 20504	20502 20503	5016 5017	1		Three-phase power factor (PF) Three-phase frequency	signed integer signed integer	0,01	Hz		Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20505	20504 20506	5018	2		Positive three-phase active energy	unsigned integer		kWh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y
20507 20509	20506 20508	501A 501C	2		Negative three-phase active energy Positive three-phase reactive energy	unsigned integer unsigned integer		kWh kvarh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y
20511	20510	501E	2		Negative three-phase reactive energy	unsigned integer		kvarh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Ý
20513 20515	20512 20514	5020 5022	1		RESERVED (return "8000h") Phase 1 active power (R)	signed integer		kW		Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20516	20515	5023	1		Phase 2 active power (S)	signed integer		kW kW		Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20517 20518	20516 20517	5024 5025	1		Phase 3 active power (T) Phase 1 reactive power (R)	signed integer signed integer		kW kvar		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20519 20520	20518 20519	5026 5027	1		Phase 2 reactive power (S) Phase 3 reactive power (T)	signed integer signed integer		kvar kvar		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20520	20519	5027	1		Phase 1 apparent power (R)	signed integer		kVA		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20522	20521 20522	5029 502A	1		Phase 2 apparent power (S) Phase 3 apparent power (T)	signed integer signed integer		kVA kVA		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20523	20522	502A 502B	1		Phase 1 power factor (PF)	signed integer	0,01	KVA		Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20525 20526	20524 20525	502C 502D	1		Phase 2 power factor (PF) Phase 3 power factor (PF)	signed integer signed integer	0,01			Expressed in "numeric coding"; with mark (more significant bit = mark) Expressed in "numeric coding"; with mark (more significant bit = mark)	4	
20527	20526	502E	2		Positive phase 1 active energy (R)	unsigned integer	0,01	kWh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y
20529 20531	20528	5030 5032	2		Positive phase 2 active energy (S) Positive phase 3 active energy (T)	unsigned integer unsigned integer		kWh kWh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y
20533	20532	5034	2		Negative phase 1 active energy (R)	unsigned integer		kWh		Expressed on "numeric coding": without mark (fixed more significant bit = 0)	4	Y
20535 20537	20534 20536	5036 5038	2		Negative phase 2 active energy (S) Negative phase 3 active energy (T)	unsigned integer unsigned integer		kWh kWh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y
20539	20538	503A	2		Positive phase 1 reactive energy (R)	unsigned integer		kvarh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Ŷ
20541	20540	503C	2		Positive phase 2 reactive energy (S) Positive phase 3 reactive energy (T)	unsigned integer unsigned integer		kvarh kvarh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y
20545	20544	5040	2		Negative phase 1 reactive energy (R)	unsigned integer		kvarh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Ý
20547 20549	20546 20548	5042 5044	2		Negative phase 2 reactive energy (S) Negative phase 3 reactive energy (T)	unsigned integer unsigned integer		kvarh kvarh		Expressed on "numeric coding"; without mark (fixed more significant bit = 0) Expressed on "numeric coding"; without mark (fixed more significant bit = 0)	4	Y Y
29185	29184	7200	29		Three-phase Electric Protection							
29185 29186	29184 29185	7200 7201	1		Overload P. relay (total) Tripped Counter (no phase indication) Short circuit P. relay (total) Tripped Counter (no phase indication)						4	Y Y
29187	29186	7202	1		Device Protection Relay (total) Tripped Counter ("III element", no						4	Ŷ
29188	29187	7203	1		phase indications) Earth Fault P. Relay (total) Tripped Counter						4	Y
29189	29188	7204	1		Over-temperature P. Relay (total) Tripped Counter			mA, °C		Evenenned in Hermonia and and	4	Y
29190 29192	29189 29191	7205 7207	1		Last Release data Buffer: Interrupted current or temperature Last Release data Buffer: "Tripped" type reading only bit reply			IIIA, <sup>-</sup> C		Expressed in "numeric coding"	4	Y Y
				0	Overload P. Relay Tripped Reply Short-circuit P. Relay Tripped Reply							
				2	Device Protection Relay Tripped Reply ("III element")							
$\rightarrow$				3	Earth Fault P. Relay Tripped Reply							
				155	RESERVED (returns "0")							
29193 29194	29192 29193	7208 7209	1		G1 – overload: levels G1 – overload: times			A/% msec		Expressed in "numeric coding" Expressed in "numeric coding"	4	Y
29194	29193	7203 720A	1		G1 - overload: options						4	Y
Ŧ				0	RESERVED (returns "0") absolute value(1)/%In(0)			<u> </u>			-	<u> </u>
				42	I2t=k MEM OFF(001)/I2t=k MEM ON(000)							
—— <u>+</u>				75	RESERVED (returns "0") point of work, Ir multiple	l					1	
29196	29195	720B	2		G1 - short circuit which may be delayed: levels			A/%		Expressed in "numeric coding"	4	Y
29198 29199	29197 29198	720D 720E	1		G1 – short circuit which may be delayed: times G1 – short circuit which may be delayed: options	l		msec		Expressed in "numeric coding"	4	Y Y
			-	0	RISERVATO (restituisce valore fisso)							<u> </u>
—— <u>+</u>				1 42	absolute value(1)/%Ir(0) curve t=k(001)/I2t=k(000)	l					1	
+				75	RESERVED (returns "0")							
		720F	2	158	Point of work for I2t curve, multiple of Ir) G1 - short circuit instantanous: level			A			4	Y
29200	29199		1		G1 - short circuit instantanous: times			msec			4	Y
29200 29202	29201	7211			G1 - short circuit instantanous: options	1					4	Y
			1	0	RESERVED (returns "0")							
29202	29201	7211	1	1	measure unity (0=%, 1=A)							
29202	29201	7211	1	1	measure unity (0=%, 1=A) RESERVED (returns "0") G1 - device protection: levels			A/%		Expressed in "numeric coding"	4	Y
29202 29203 29204 29204 29206	29201 29202 29203 29203	7211 7212 7213 7215	1 2 1	1	measure unity (0=%, 1=A) RESERVED (returns "0") G1 - device protection: levels G1 - device protection: times			A/% msec		Expressed in "numeric coding" Expressed in "numeric coding"	4	Ý
29202 29203 29204	29201 29202 29203	7211 7212 7213	1 2 1 1	1 152 0	measure unity (0=%, 1=A) RESERVED (returns °0°) G1 - device protection: levels G1 - device protection: times G1 - device protection: options RESERVED (returns °0°) C1 - C1 -						4 4 4	Y Y Y
29202 29203 29204 29204 29206	29201 29202 29203 29203	7211 7212 7213 7215	1 2 1 1	1 152 0 1	measure unity (0=%, 1=A)           RESERVED (returns '0')           G1 - device protection: levels           G1 - device protection: times           G1 - device protection: options           RESERVED (returns '0')           absolute value(1)/%In(0)						4	Ý
29202 29203 29204 29204 29206	29201 29202 29203 29203	7211 7212 7213 7215	1 2 1 1 1	1 152 0 1 152	measure unity (0=%, 1=A) RESERVED (returns °0°) G1 - device protection: levels G1 - device protection: times G1 - device protection: options RESERVED (returns °0°) C1 - C1 -			msec			4	Ý
29202 29203 29204 29206 29207 29207 29208 29208 29209	29201 29202 29203 29205 29205 29206 29206 29207 29207 29208	7211 7212 7213 7215 7216 7216 7217 7218	1 2 1 1 1 1	1 152 0 1 152	measure unity (0=%, 1=A) RESERVED (returns *0") G1 - device protection: levels G1 - device protection: options RESERVED (returns *0") absolute value(1)%dn(0) RESERVED (returns *0") G1 - earth: levels G1 - earth: levels			msec		Expressed in "numeric coding"	4 4	Ŷ
29202 29203 29204 29206 29207 29207 29208	29201 29202 29203 29205 29206 29206 29207	7211 7212 7213 7215 7216 7216 7217	1 2 1 1 1 1 1 1 1 1	1 152 0 1 152 0	measure unity (0=%, 1=A)           RESERVED (returns '0'')           G1 - device protection: times           G1 - device protection: options           RESERVED (returns '0'')           absolute value(1)/%In(0)           RESERVED (returns '0'')           G1 - device protection: options           RESERVED (returns '0'')           G1 - earth: levels           G1 - earth: times           G1 - earth: ioptions			msec		Expressed in "numeric coding"	4 4 4	Y Y Y Y Y Y
29202 29203 29204 29206 29207 29207 29208 29208 29209	29201 29202 29203 29205 29205 29206 29206 29207 29207 29208	7211 7212 7213 7215 7216 7216 7217 7218	1 2 1 1 1 1 1 1	1 152 0 1 152 0 1	measure unity (0=%, 1=A)           RESERVED (returns *0")           G1 - device protection: levies           G1 - device protection: times           G1 - device protection: gotions           RESERVED (returns *0")           absolute value(1)/%in(0)           RESERVED (returns *0")           G1 - earth: times           G1 - earth: times           G1 - earth: topions           G1 - earth: topions           G1 - earth: topions           disable(1)/active(0)           dissolute value(1)/%in(0)			msec		Expressed in "numeric coding"	4 4 4 4 4 4 4 4	Y Y Y Y Y
29202 29203 29204 29206 29207 29207 29208 29208 29209	29201 29202 29203 29205 29205 29206 29206 29207 29207 29208	7211 7212 7213 7215 7216 7216 7217 7218	1 2 1 1 1 1 1 1	1 152 0 1 152 0 1 42	measure unity (0=%, 1=A)           RESERVED (returns '0'')           G1 - device protection: times           G1 - device protection: options           RESERVED (returns '0'')           absolute value(1)/%In(0)           RESERVED (returns '0'')           G1 - device protection: options           RESERVED (returns '0'')           G1 - earth: levels           G1 - earth: times           G1 - earth: ioptions			msec		Expressed in "numeric coding"	4 4 4 4 4 4 4	Y Y Y Y Y Y
29202 29203 29204 29206 29206 29207 29208 29209 29209 29210	29201 29202 29203 29205 29206 29206 29207 29208 29209 29209	7211 7212 7213 7215 7216 7217 7218 7219	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 152 0 1 152 0 1 42	measure unity (0=%, 1=A)           RESERVED (returns °0°)           G1 - device protection: levels           G1 - device protection: options           RESERVED (returns °0°)           absolute value(1)%%In(0)           RESERVED (returns °0°)           G1 - edvice protection: options           RESERVED (returns °0°)           G1 - earth: levels           G1 - earth: levels           G1 - earth: times           G1 - earth: totions           disabled(1)/active(0)           absolute value(1)%In(0)           curve t=k(001)/12t=k(000)           RESERVED (returns °0°)           Point of work for T2t curve, multiple of Iq			msec		Expressed in "numeric coding" Expressed in "numeric coding" Expressed in "numeric coding"	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y Y Y Y Y Y Y
29202 29203 29204 29206 29207 29207 29208 29208 29209	29201 29202 29203 29205 29205 29206 29206 29207 29207 29208	7211 7212 7213 7215 7216 7216 7217 7218	1 2 1 1 1 1 1 1 1 1 1	1 152 0 1 152 0 1 42 75	measure unity (0=%, 1=A)           RESERVED (returns °0°)           G1 - device protection; levels           G1 - device protection; options           RESERVED (returns °0°)           absolute value(1)%%In(0)           RESERVED (returns °0°)           absolute value(1)%%In(0)           G1 - earth: levels           G1 - earth: lowels           G1 - neutral protection: lowels           G1 - neutral protection: lowels           G1 - neutral protection: globans			msec		Expressed in "numeric coding"		Y Y Y Y Y Y Y
29202 29203 29203 29204 29206 29207 29206 29207 29208 29209 29210 29211	29201 29202 29203 29205 29206 29206 29206 29207 29208 29209 29209 29209	7211 7212 7213 7215 7215 7216 7217 7218 7219 7219 7218	1 2 1 1 1 1 1 1 1 1 1 1	1 152 0 1 152 0 1 42 75 158	measure unity (0=%, 1=A)           RESERVED (returns '0'')           G1 - device protection: times           G1 - device protection: options           RESERVED (returns '0'')           absolute value(1)/%in(0)           RESERVED (returns '0'')           absolute value(1)/%in(0)           G1 - eavier protection: options           RESERVED (returns '0'')           absolute value(1)/%in(0)           G1 - earth: intes           G1 - earth: intes           G1 - earth: options           disable(1)/active(0)           absolute value(1)/%in(0)           curve t=kv(0)/1/R1=k(000)           RESERVED (returns '0')           Point of work for 12t curve, multiple of 1q           G1 - neutral protection: isvels           G1 - neutral protection: isvels			msec		Expressed in "numeric coding" Expressed in "numeric coding" Expressed in "numeric coding"	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y Y Y Y Y Y Y Y
29202 29203 29203 29206 29206 29207 29208 29209 29209 29210 29210 29211 29211 29212	29201 29202 29203 29205 29206 29206 29206 29207 29208 29209 29209 29209	7211 7212 7213 7215 7215 7216 7217 7218 7219 7219 7218	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 152 0 1 152 0 1 42 75 158	measure unity (0=%, 1=A)           RESERVED (returns °0°)           G1 - device protection; levels           G1 - device protection; options           RESERVED (returns °0°)           absolute value(1)%%In(0)           RESERVED (returns °0°)           absolute value(1)%%In(0)           G1 - earth: levels           G1 - earth: lowels           G1 - neutral protection: lowels           G1 - neutral protection: lowels           G1 - neutral protection: globans			msec		Expressed in "numeric coding" Expressed in "numeric coding" Expressed in "numeric coding"	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y Y Y Y Y Y Y Y

INPUT REGISTERS - Words (R)

# DMX<sup>3</sup> Protection Unit Cat.No. 288 04 with COM Options Cat No. 288 05 - ModbusTable LGR EN v1.00.xls

	Register Address (Dec)		Description	Туре	Scale	Unit	Range	Function	Write Function Codes (Dec)	Data Storing
			(no HOLDING REGISTERS availables)							

HOLDING REGISTERS - Words (R&W)