

MODBUS Address-table MMI8003 – V1.1
Function code 3 (Register 3000)

Address		H/L	Register name	Info / Range of values														
DEC	HEX																	
3000	0B B8	H	Software version	83 = MMI8003														
		L	Device type	Divide by 10 to get software version. exp: 10 = V1.0														
3001	0B B9	W	Power-Scaling-Factor (PSF)	Multiplier for values of address 3002 .. 3017 Valid values: 1, 10, 100, 1000														
3002	0B BA	W	L1	Reactive power Unsigned 16bit integer. Unit var Exp.: 1000 * PSF = 10000var (If PSF = 10)														
3003	0B BB	W	L2															
3004	0B BC	W	L3															
3005	0B BD	W	SUM															
3006	0B BE	W	L1	Active power Signed 16bit integer. Unit W Exp.: 1000 * PSF = 10000W (If PSF = 10) Negative values: supply (4-quadrant-mode)														
3007	0B BF	W	L2															
3008	0B C0	W	L3															
3009	0B C1	W	SUM															
3010	0B C2	W	L1	Apparent power Unsigned 16bit integer. Unit VA Exp.: 1000 * PSF = 10000VA (If PSF = 10)														
3011	0B C3	W	L2															
3012	0B C4	W	L3															
3013	0B C5	W	SUM															
3018	0B CA	W	L1	Measuring voltage Unsigned 16bit integer. Unit V Exp.: 230 = 230V														
3019	0B CB	W	L2															
3020	0B CC	W	L3															
3021	0B CD	W	L1	Measuring current Unsigned 16bit integer. Unit A Exp.: 1000 = 1000A														
3022	0B CE	W	L2															
3023	0B CF	W	L3															
3024	0B D0	W	L1	Powerfactor Cos-phi signed 16bit integer. Unit 1. Examples: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="2">Value</th> <th rowspan="2">Value of powerfactor / Cos-phi</th> </tr> <tr> <th>Hex</th> <th>Decimal</th> </tr> </thead> <tbody> <tr> <td>0h0320</td> <td>800</td> <td>0.800 ind</td> </tr> <tr> <td>0h03E8</td> <td>1000</td> <td>1.000</td> </tr> <tr> <td>0hFCE0</td> <td>-800</td> <td>0.800 cap</td> </tr> </tbody> </table> Valid decimal range -999 .. 0 .. 1000	Value		Value of powerfactor / Cos-phi	Hex	Decimal	0h0320	800	0.800 ind	0h03E8	1000	1.000	0hFCE0	-800	0.800 cap
Value		Value of powerfactor / Cos-phi																
Hex	Decimal																	
0h0320	800	0.800 ind																
0h03E8	1000	1.000																
0hFCE0	-800	0.800 cap																
3025	0B D1	W	L2															
3026	0B D2	W	L3															
3027	0B D3	W	SUM															
3028	0B D4	L	L1	Frequency Unsigned 8bit byte. Unit Hz Exp: 50 = 50Hz														
3029	0B D5	L	L2															
3030	0B D6	L	L3															

Address		H/L	Register name	Info / Range of values								
DEC	HEX			Decimal value	Bit	Description						
3037	0B DD	H	L2 Error	1	0	Over voltage						
		L	L1	2	1	Over current						
3038	0B DE	H	-	4	2	Frequency to high						
				8	3	Frequency to lo						
				16	4	Under voltage						
		L	L3	32	5	-						
				64	6	-						
128	7	-										
3043	0B E3	H	Internal Clock - Minute	Unsigned 8bit byte. Valid values: 1 .. 59 – Unit min								
		L	Internal Clock - Second	Unsigned 8bit byte. Valid values: 1 .. 59 – Unit sec								
3044	0B E4	H	Intern. Calendar - Day	Unsigned 8bit byte. Valid values: 1 .. 31 – Unit d								
		L	Internal Clock - Hour	Unsigned 8bit byte. Valid values: 0 .. 24 – Unit hr								
3045	0B E5	H	Intern. Calendar - Year	Unsigned 8bit byte. Valid values: 00 .. 99 – Unit yr Add 2000 to get real Year. exp: 10 = 2010								
		L	Intern. Calendar - Month	Unsigned 8bit byte. Valid values: 1 .. 12 – Unit mm								
3048	0B E8	L	Test state	<table border="1"> <thead> <tr> <th>Bit</th> <th>Taste</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>After manual-calibration</td> </tr> <tr> <td>7</td> <td>After calibration at test stand</td> </tr> </tbody> </table>			Bit	Taste	6	After manual-calibration	7	After calibration at test stand
				Bit	Taste							
6	After manual-calibration											
7	After calibration at test stand											
Register value 0 = main-reset executed												
3073..	0C 01	W	L1 Voltage	Unsigned 16bit integer * 0.1 . Unit % Exp.: 100 * 0.1 = 10.0%								
3092	0C 14											
3093..	0C 15	W	L2 3 rd .. 41 st Harmonics									
3112	0C 28											
3113..	0C 29	W	L3									
3132	0C 3C											
3133..	0C 3D	W	L1 Current	Unsigned 16bit integer * 0.1 . Unit % Exp.: 100 * 0.1 = 10.0%								
3152	0C 50											
3153..	0C 51	W	L2 3 rd .. 41 st Harmonics									
3172	0C 64											
3173..	0C 65	W	L3									
3192	0C 78											
3193	0C 79	W	L1	Unsigned 16bit integer * 0.1 . Unit % Exp.: 100 * 0.1 = 10.0%								
3194	0C 7A	W	L2 Voltage THD									
3195	0C 7B	W	L3									
3196	0C 7C	W	L1	Unsigned 16bit integer * 0.1 . Unit % Exp.: 100 * 0.1 = 10.0%								
3197	0C 7D	W	L2 Current THD									
3198	0C 7E	W	L3									
3201..	0C 81	H	-	Controller settings (read / write)								
3209	0C 89	L	Controller Settings									

Address			H/L	Register name		Info / Range of values
DEC	HEX					
3305	0C E9	WW	IND	Energy		Unsigned 32bit long. Unit kvarh Exp.: 100 = 100kvarh
3307	0C EB	WW	CAP			
3309	0C ED	WW	(+)			Unsigned 32bit long. Unit kWh Exp.: 100 = 100kWh
3311	0C EF	WW	(-)			
3313	0C F1	WW	IND	Energy		Unsigned 32bit long. Unit vars Exp.: 100 = 100vars / 3600 = varh
3315	0C F3	WW	CAP			
3317	0C F5	WW	(+)			Unsigned 32bit long. Unit Ws Exp.: 100 = 100Ws / 3600 = Wh
3319	0C F7	WW	(-)			

Floating point values
Function code 3 (Register 3585)

Address			Register name	Info / Range of values
DEC	HEX	H/L		
3585	0E 01	WW	L1	32bit single Unit V
3587	0E 03	WW	L2 Voltage (floating point)	
3589	0E 05	WW	L3	
3591	0E 07	WW	L1	32bit single Unit A
3593	0E 09	WW	L2 Current (floating point)	
3595	0E 0B	WW	L3	
3597	0E 0D	WW	L1	32bit single Unit Var
3599	0E 0F	WW	L2 Reactive power (floating point)	
3601	0E 11	WW	L3	
3603	0E 13	WW	SUM	
3605	0E 15	WW	L1	32bit single Unit W
3607	0E 17	WW	L2 Active power (floating point)	
3609	0E 19	WW	L3	
3611	0E 1B	WW	SUM	
3613	0E 1D	WW	L1	32bit single Unit VA
3615	0E 1F	WW	L2 Apparent power (floating point)	
3617	0E 21	WW	L3	
3619	0E 23	WW	SUM	
3621	0E 1F	WW	L1	32bit single Unit %
3623	0E 21	WW	L2 Voltage THD	
3625	0E 23	WW	L3	
3627	0E 25	WW	L1	32bit single Unit %
3629	0E 27	WW	L2 Current THD	
3631	0E 29	WW	L3	
3633	0E 2B	WW	L1	32bit single Unit 1 Range: 0... 1, positive values → ind, negative values → cap
3635	0E 2D	WW	L2 Powerfactor Cos-phi (floating point)	
3637	0E 2F	WW	L3	
3639	0E 31	WW	SUM	
3641	0E 39	W	L1 Frequency	Unsigned 8bit byte. Unit Hz Exp: 50 = 50Hz
3642	0E 3A	WW	IND	Energy Unsigned 32bit long. Unit kvarh Exp.: 100 = 100kvarh
3644	0E 3C	WW	CAP	
3646	0E 3E	WW	+	
3648	0E 40	WW	-		Unsigned 32bit long. Unit kWh Exp.: 100 = 100kWh

Floating point values
Function code 3 (Register 3685)

Address			Register name	Info / Range of values
DEC	HEX	H/L		
3685	0E 65	WW	L1	32bit single Unit V
3687	0E 67	WW	L2 Voltage (floating point)	
3689	0E 69	WW	L3	
3691	0E 6B	WW	L1	32bit single Unit A
3693	0E 6D	WW	L2 Current (floating point)	
3695	0E 6F	WW	L3	
3697	0E 71	WW	L1 Powerfactor	32bit single Unit 1 Range: 0... 1, positive values → ind, negative values → cap
3699	0E 73	WW	L2 Cos-phi (floating point)	
3701	0E 75	WW	L3	
3703	0E 77	H	L1 Frequency	Unsigned 8bit byte. Unit Hz Exp: 50 = 50Hz Bit 0 = Reactive power L1 Bit 1 = Reactive power L2 Bit 2 = Reactive power L3 Bit 3 = Reactive power SUM Bit 4 = Active power L1 Bit 5 = Active power L2 Bit 6 = Active power L3 Bit 7 = Active power SUM Bit = 1 = (-) Bit = 0 = (+)
		L	L1...3 Sign	
3704	0E 78	H	S/s	measurements / second
		L	M/P		measurements / period

Long-Format values

Function code 3 (Register 3830)

Address			H/L	Register name		Info / Range of values
DEC	HEX					
3830	0E F6	WW	SUM	Reactive pwr (long)		32bit long, Unit var
3832	0E F8	WW	SUM	Active pwr (long)		32bit long, Unit W
3834	0E FA	WW	SUM	Apparent pwr (long)		32bit long, Unit VA
<hr/>						
3841	0F 01	WW	L1	Voltage (long)		32bit long Unit V
3843	0F 03	WW	L2			
3845	0F 05	WW	L3			
<hr/>						
3847	0F 07	WW	L1	Current (long)		32bit long Unit A
3849	0F 09	WW	L2			
3851	0F 0B	WW	L3			
<hr/>						
3853	0F 0D	WW	L1	Reactive power (long)		32bit long Unit Var
3855	0F 0F	WW	L2			
3857	0F 11	WW	L3			
3859	0F 13	WW	SUM			
<hr/>						
3861	0F 15	WW	L1	Active power (long)		32bit long Unit W
3863	0F 17	WW	L2			
3865	0F 19	WW	L3			
3867	0F 1B	WW	SUM			
<hr/>						
3869	0F 1D	WW	L1	Apparent power (long)		32bit long Unit VA
3871	0F 1F	WW	L2			
3873	0F 21	WW	L3			
3875	0F 23	WW	SUM			
<hr/>						
3877	0F 25	WW	L1	Voltage THD		32bit long * 0.1 . Unit % Exp.: 100 * 0.1 = 10.0%
3879	0F 27	WW	L2			
3881	0F 29	WW	L3			
<hr/>						
3883	0F 2B	WW	L1	Current THD		32bit long * 0.1 . Unit % Exp.: 100 * 0.1 = 10.0%
3885	0F 2D	WW	L2			
3887	0F 2F	WW	L3			
<hr/>						
3889	0F 31	WW	L1	Powerfactor Cos-phi		32bit long Range: 0... 1000, positive values→ ind, negative values→ cap 1000 = 1.00
3891	0F 33	WW	L2			
3893	0F 35	WW	L3			
3895	0F 37	WW	SUM			
<hr/>						

3897	0F	39	H	- -	-	-
			L	L1	Frequency	Unsigned 8bit byte. Unit Hz Exp: 50 = 50Hz
3898	0F	3A	WW	IND	Energy	Unsigned 32bit long. Unit kvarh Exp.: 100 = 100kvarh
3900	0F	3C	WW	CAP		
3902	0F	3E	WW	+		
3904	0F	40	WW	-		
3906	0F	42	WW	IND	Energy	Unsigned 32bit long. Unit vars Exp.: 100 = 100kvarh / 3600 = varh
3908	0F	44	WW	CAP		
3910	0F	46	WW	+		
3912	0F	48	WW	-		
4044	0F	CC	W	L1	Active power	Signed 16bit integer. Unit W Exp.: 1000 * PSF = 10000W (If PSF = 10)
4045	0F	CD	W	L2		
4046	0F	CE	W	L3			Negative values: supply (4-quadrant-mode)
4047	0F	CF	W	L1	Measuring voltage	Unsigned 16bit integer. Unit V Exp.: 230 = 230V
4048	0F	D0	W	L2		
4049	0F	D1	W	L3		
4050	0F	D2	W	L1	Measuring current	Unsigned 16bit integer. Unit A Exp.: 1000 = 1000A
4051	0F	D3	W	L2		
4052	0F	D4	W	L3		
4053	0F	D5	L	-	ERROR-REGISTER	- Bit 0 = over voltage L1 Bit 1 = over voltage L2 Bit 2 = over voltage L3 Bit 3 = over current L1 Bit 4 = over current L2 Bit 5 = over current L3
4060	0F	DC	W		Power-Scaling-Factor (PSF)	Multiplier for values of address Valid values: 1, 10, 100, 1000
4061	0F	DD	W	SUM	Reactive power	Unsigned 16bit integer. Unit var Exp.: 1000 * PSF = 10000var (If PSF = 10)
4062	0F	DE	W	SUM	Active power	Signed 16bit integer. Unit W Exp.: 1000 * PSF = 10000W (If PSF = 10) Negative values: supply (4-quadrant-mode)
			H	-		-
3918	0F	4E	L	-	ERROR-REGISTER	Bit 0 = over voltage L1 Bit 3 = over current L1

15 min energy (+)

Function code 3 (Register 4097)

Address			Register name	Info / Range of values
DEC	HEX	H/L		
4097	10 01	W	00:15 15 min	15 min energy (+) Unit kWh
4098	10 02	W	00:30 15 min	
...	10 ...	...	... ..
4192	10 60	W	00:00 15 min	timestamp
4193	10 61	H L	00:15 day month	
4194	10 62	H L	00:30 day month	
...	10 ...	...	... ..
4288	10 C0	H L	00:00 day month	
4289	10 C1	W	15 min energy		15 min energy (+) Unit kWh (cumulative)
4290	10 C2	W	max 15 min energy	max 15 min energy (+) Unit kWh
4291	10 C3	H L	- 1...96 (15min)	timestamp for max 15 min energy (+)
4292	10 C4	H L	- day	
4293	10 C5	H L	- month	
4294	10 C6	H L	- year	

15 min energy (-)

Function code 3 (Register 4353)

Address			Register name	Info / Range of values
DEC	HEX	H/L		
4353	11 01	W	00:15 15 min	15 min energy (-) Unit kWh
4354	11 02	W	00:30 15 min	
...	
4448	11 60	W	00:00 15 min	timestamp
4449	11 61	H L	00:15 day month	
4450	11 62	H L	00:30 day month	
...	11 ...	...	... ..
4544	11 C0	H L	00:00 day month	
4545	11 C1	W	15 min energy		15 min energy (-) Unit kWh (cumulative)
4546	11 C2	W	max 15 min energy	max 15 min energy (-) Unit kWh
4547	11 C3	H L	- 1...96 (15min)	timestamp for max 15 min energy (-)
4548	11 C4	H L	- day	
4549	11 C5	H L	- month	
4550	11 C6	H L	- year	

energy (+) daily counter reading
Function code 3 (Register 4609)

Address			Register name	Info / Range of values	
DEC	HEX	H/L			
4609	12 01	WW	day 1 energy (+)	Unsigned 32bit long. Unit kWh	
4611	12 02	WW	day 2 energy (+)		
...	12 ...	...	... ..
4669	12 1E	WW	day 30 energy (+)		
4670	12 1F	WW	day 31 energy (+)		
4671	12 20	H L	day 1 day month		timestamp
4672	12 21	H L	day 2 day month		
...	12 ...	...	... ..
4700	12 5C	H L	day 30 day month		
4701	12 5D	H L	day 31 day month		

energy (-) daily counter reading
Function code 3 (Register 4865)

Address			Register name	Info / Range of values	
DEC	HEX	H/L			
4865	13 01	WW	day 1 energy (-)	Unsigned 32bit long. Unit kWh	
4866	13 02	WW	day 2 energy (-)		
...	13 ...	...	... ..
4925	13 1E	WW	day 30 energy (-)		
4926	13 1F	WW	day 31 energy (-)		
4927	13 20	H L	day 1 day month		timestamp
4928	13 21	H L	day 2 day month		
...	13 ...	...	... ..
4956	13 5C	H L	day 30 day month		
4957	13 5D	H L	day 31 day month		

Floating point values
Function code 3 (Register 6000)

Address			H/L	Register name	Info / Range of values
DEC	HEX				
5999	17	6F	H	83	Device type
			L	30	
6000	17	70	WW	L1	Voltage (floating point)
6002	17	72	WW	L2	
6004	17	74	WW	L3	
6006	17	76	WW	L1	Current (floating point)
6008	17	78	WW	L2	
6010	17	7A	WW	L3	
6012	17	7C	WW	L1	Reactive power (floating point)
6014	17	7E	WW	L2	
6016	17	80	WW	L3	
6018	17	82	WW	SUM	
6020	17	84	WW	L1	Active power (floating point)
6022	17	86	WW	L2	
6024	17	88	WW	L3	
6026	17	8A	WW	SUM	
6028	17	8C	WW	L1	Apparent power (floating point)
6030	17	8E	WW	L2	
6032	17	90	WW	L3	
6034	17	92	WW	SUM	
6036	17	94	WW	L1	Powerfactor Cos-phi (floating point)
6038	17	96	WW	L2	
6040	17	98	WW	L3	
6042	17	9A	WW	SUM	
6044	17	9C	H	-	-
			L	L1 Frequency		Unsigned 8bit byte. Unit Hz Exp: 50 = 50Hz
6045	17	9D	WW	IND	Unsigned 32bit long. Unit kvarh Exp.: 100 = 100kvarh
6047	17	9F	WW	CAP	
6049	17	A1	WW	+	Energy
6051	17	A3	WW	-		Unsigned 32bit long. Unit kWh Exp.: 100 = 100kWh
6053	17	A5	WW	+	Energy
6055	17	A7	WW	-		Unsigned 32bit long. Unit Ws Exp.: 100 = 100Ws / 3600 = Wh

Floating point max values
Function code 3 (Register 6058)

Address			Register name	Info / Range of values
DEC	HEX	H/L		
6058	17 AA	WW	L1	32bit single Unit V
6060	17 AC	WW	L2 max Voltage (floating point)	
6062	17 AE	WW	L3	
6064	17 B0	WW	L1	32bit single Unit A
6066	17 B2	WW	L2 max Current (floating point)	
6068	17 B4	WW	L3	
6070	17 B6	WW	L1	32bit single Unit var
6072	17 B8	WW	L2 max Reactive power (floating point)	
6074	17 BA	WW	L3	
6076	17 BC	WW	SUM	32bit single Unit W
6078	17 BE	WW	L1	
6080	17 C0	WW	L2 max Active power (floating point)	
6082	17 C2	WW	L3	
6084	17 C4	WW	SUM	32bit single Unit VA
6086	17 C6	WW	L1	
6088	17 C8	WW	L2 max Apparent power (floating point)	
6090	17 CA	WW	L3	
6092	17 CC	WW	SUM	32bit single Unit %
6094	17 CE	WW	L1	
6096	17 D0	WW	L2 max Voltage THD-V	
6098	17 D2	WW	L3	32bit single Unit %
6100	17 D4	WW	L1	
6102	17 D6	WW	L2 max Current THD-I	
6104	17 D8	WW	L3	

Controller settings (read / write)

Address			Register name	Description / Range of values / Examples																																												
Code R= 3	Code W= 6	H/L																																														
3201	1	L	Operating mode	0 = 1-phase 1 = 3-phase																																												
3202	2	L	L1 L2 L3 Primary current converter	<table border="1"> <thead> <tr> <th>Valid values</th> <th>Start</th> <th>End</th> <th>Step width</th> </tr> </thead> <tbody> <tr> <td>1... 50</td> <td>5A</td> <td>250A</td> <td>5A</td> </tr> <tr> <td>51 .. 175</td> <td>260A</td> <td>1.5kA</td> <td>10A</td> </tr> <tr> <td>176 .. 185</td> <td>1.55kA</td> <td>2kA</td> <td>50A</td> </tr> <tr> <td>186 .. 245</td> <td>2.1kA</td> <td>8kA</td> <td>100A</td> </tr> <tr> <td>246 .. 255</td> <td>8.5kA</td> <td>13kA</td> <td>500A</td> </tr> </tbody> </table>	Valid values	Start	End	Step width	1... 50	5A	250A	5A	51 .. 175	260A	1.5kA	10A	176 .. 185	1.55kA	2kA	50A	186 .. 245	2.1kA	8kA	100A	246 .. 255	8.5kA	13kA	500A																				
				Valid values	Start	End	Step width																																									
				1... 50	5A	250A	5A																																									
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				176 .. 185	1.55kA	2kA	50A																																									
186 .. 245	2.1kA	8kA	100A																																													
246 .. 255	8.5kA	13kA	500A																																													
3203	3	L	Secondary current converter	0 = 1A 1 = 5A																																												
3204	4	L	Measuring voltage L-L	Byte, valid range: 0 .. 99 - Unit 5V Range: 30V .. 525V E.g.: Byte * 5V = Measuring voltage → 40 * 5V +30 = 230V																																												
3205	5	L	Voltage converter	<table border="1"> <thead> <tr> <th>Valid values</th> <th>Start</th> <th>End</th> <th>Step width</th> </tr> </thead> <tbody> <tr> <td>0</td> <td colspan="3">not used</td> </tr> <tr> <td>1 .. 59</td> <td>410V</td> <td>1kV</td> <td>10V</td> </tr> <tr> <td>60 .. 189</td> <td>1.1kV</td> <td>14kV</td> <td>100V</td> </tr> <tr> <td>190 .. 255</td> <td>15kV</td> <td>79kV</td> <td>1000V</td> </tr> </tbody> </table>	Valid values	Start	End	Step width	0	not used			1 .. 59	410V	1kV	10V	60 .. 189	1.1kV	14kV	100V	190 .. 255	15kV	79kV	1000V																								
				Valid values	Start	End	Step width																																									
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				1 .. 59	410V	1kV	10V																																									
60 .. 189	1.1kV	14kV	100V																																													
190 .. 255	15kV	79kV	1000V																																													
3206	6	L	Frequency	<table border="1"> <thead> <tr> <th>Valid values</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>42...70 Hz</td> </tr> <tr> <td>1</td> <td>50 Hz</td> </tr> <tr> <td>2</td> <td>60 Hz</td> </tr> <tr> <td>3</td> <td>16.7 Hz</td> </tr> </tbody> </table>	Valid values	Frequency	0	42...70 Hz	1	50 Hz	2	60 Hz	3	16.7 Hz																																		
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Code R= 3	Code W= 6	H/L	Register name	Description / Range of values / Examples																																												
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3209	9	L	MODBUS-ADDRESS COM 2	0 = DIP-Switch COM 1 1... 125 = Address																																												
3210	10	L	MEASURING VOLTAGE	0 = N - L1 - L2 - L3 1 = L1 - L2 - L3																																												
-	200	W	Reset Energy meter	0x55 55 (85d 85d)																																												
-	201	W	Reset Max. grid parameters	0x55 55 (85d 85d)																																												

[settings internal systemclock - functions-code 160 / 161](#)

ADDRESS	F-Code	Byte	Register name	Description
0	160	3	YEAR	no-response
		4	MONTH	
		5	DAY	
		6	HOUR	
		7	MINUTE	
		8	SECOND	
		9	CRC-L	
0	161	10	CRC-H	no-response
		3	HOUR	
		4	MINUTE	
		5	SECOND	
		6	CRC-L	
		7	CRC-H	