

9499 470 18511

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# 1. PROGRAMMING THE PM2528

Function	ISO 7 bit code	Description
V <del></del>	FØØ	
V ~	FØ1	
∨≂	FØ2	
$\Omega$ 2W	FØ3	
$\Omega$ 4W	F <b>Ø</b> 4	
A <del></del>	F <b>Ø</b> 5	Function
A≂	FØ6	
°C	F <b>Ø</b> 7	
Vhf	FØ8	
Vpeak ^	F <b>Ø</b> 9	
Vpeak∨	F1Ø	
Vpeak ≎	F11	
Range	RØ	Autoranging
(see table	R1	Lowest range
"range code")	•	-
	:	
	R8	Highest range
Data ready request	DØ	- Data is output immediately after the measurement is terminated, if addressed as talker.
	D1	<ul> <li>No request for service</li> <li>Data is not output automatically after a measurement</li> </ul>
	D1	is terminated. Output only occurs after the measurement has been ended and the PM2528 is addressed as talker.
		<ul> <li>Service Request message is sent to indicate the termination of the measurement.</li> </ul>



**PHILIPS** 

# PROGRAMMING cont.

Function	ISO 7 bit code	Description
High speed mode	SØ S1	Normal speed mode (integration time 100ms) High speed mode (integration time 20ms)
High resolution mode	H <b>0</b> H1	Normal resolution High resolution
Offset mode		Short circuit input terminals 0 and V $\Omega$ of the PM2528. Select V, autoranging, high resolution mode. Offset mode is not indicated at the front of the PM2528 or in the device status data.
	O1O1 O0O0	Input offset voltage is compensated. Offset voltage is no longer compensated.
		Note: Function O101 is a toggle function. This means that the first time O101 is sent offset is compensated.  The second time O101 is sent or O000 offset is no longer compensated.
Relative reference mode	O1 O0	Relative reference mode: the measured value is stored in the memory of the PM2528 once after a command.  No relative reference mode.
		NOTE: Relative reference mode is indicated by the offset LED.
Start mode	TØ T1 T2	Internal start External start via IEC-bus interface External start via IEC-bus interface or BNC on the rear of the PM2528
Start command	E1 GET	Starts a measurement Group Execute Trigger: starts a measurement

NOTE: In the programming table  $\emptyset$  = zero O = letter

Hange code		RØ	R1	R2	R3	R4	R5	R6	R7	R8
Function	Function Code			112	110	,,,,	113	110	W	no
V <del></del>	FØØ					200mV	2000mV	20V	200V	2000V
V ~	FØ1	AUTO				200mV	2000mV	20V	200V	2000V
∨≂	F <b>0</b> 2	RANGING				200mV	2000mV	20V	200V	2000V
$\Omega$ 2W	FØ3		$200\Omega$	$2000\Omega$	20k $\Omega$	200k $\Omega$	2000k $\Omega$	20M $\Omega$	200M $\Omega$	2000M $\Omega$
$\Omega$ 4W	FØ4		$200\Omega$	$2000\Omega$	20k $\Omega$	200k $\Omega$	2000k $\Omega$			
A <del></del>	FØ5			$2\mu A$	20μΑ	200μΑ	2000μΑ	20mA	200mA	2000mA
A =	FØ6			$2\mu A$	20μΑ	200μΑ	2000μΑ	20mA	200mA	2000mA
°C	FØ7									2000°C
Vhf	FØ8					200mV	2000mV			
Vpeak ^	FØ9						2000mV	20V	200V	2000V
Vpeak∨	F10						2000mV	20V	200V	2000V
Vpeak ◊	F11						2000mV	20V	200V	2000V

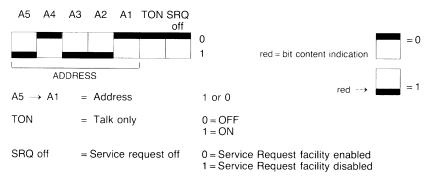
# 2. DELIMITERS

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Input delimiters: Not required, all delimiters are allowed

Output delimiter: ETX ^ END

#### 3. SETTINGS



NOTE: The switches are located at the rear of the PM2528

### 4. OUTPUT DATA

#### Measurement data

The numeric representation of the decimal output data is an explicit point scaled representation, loosely called floating point.

### Data examples

Char. No.	1	2	3	4	5	6	7	8	9	10	11	12 and EOI Line
Data	+	1	2		8	3	4	6	Ε	+	0	ETX A END
	SP	1	2	8		3	4	6	Ε	+	3	ETX ∧ END

#### Device status data

DIO	8	7	6	5	4	3	2	1
bits	(128)	(64)	(32)	(16)	(8)	(4)	(2)	(1)
	EX	RQS	AL	BSY	EF3	EF2	EF1	EF0

### Error codes (AL = 1)

#### Function codes (AL = 0)

EF3	EF2	EF1	EF0		Function	EF3	EF2	EF1	EF0
0 0 0	0 0 0	0 1 1	1 0 1			0 0 0 0	0 0 0 0 1	0 0 1 1 0	0 1 0 1 0
0	1	0	0	Illegal digit (Programming error)	A A.— °C Vhf Vpeak ^ Vpeak ↓ Vpeak ◊	0 0 1 1 1	1 1 0 0 0	0 1 1 0 0 1	1 0 1 0 1 0

#### Extension bit (EX)

EX = 0 Normal mode

EX = 1 Relative reference mode