



***MPS - Driver of MPS Protocol for Power  
Network Parameter Meters  
User's Manual***

Doc. No. ENP4039  
Version: 29-08-2005

**ASKOM**<sup>®</sup> and **asix**<sup>®</sup> are registered trademarks of ASKOM Spółka z o.o., Gliwice. Other brand names, trademarks, and registered trademarks are the property of their respective holders.

All rights reserved including the right of reproduction in whole or in part in any form. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without prior written permission from the ASKOM.

ASKOM sp. z o. o. shall not be liable for any damages arising out of the use of information included in the publication content.

Copyright © 2005, ASKOM Sp. z o. o., Gliwice



ASKOM Sp. z o. o., ul. Józefa Sowińskiego 13, 44-121 Gliwice,  
tel. +48 (0) 32 3018100, fax +48 (0) 32 3018101,  
<http://www.askom.com.pl>, e-mail: [office@askom.com.pl](mailto:office@askom.com.pl)

# 1. MPS - Driver of MPS Protocol for Power Network Parameter Meters

## 1.1. Driver Use

The MPS driver is used for communication with MPS power network parameter meters made by OBR Metrologii Elektrycznej in Zielona Góra, by means of a serial interface.

## 1.2. Definition of Transmission Channel

The full syntax of declaration of transmission channel operating according to the MPS protocol has the following form:

*logical\_name=MPS,controller address,COMn*

where:

*COMn* - is the number of the serial port to which the MPS controllers network is connected.

### EXAMPLE

An example of the channel definition. In this case, the channel is a logical name of the MPS controller.

```
[ASMEN]
...
MPS1=MPS,1,COM2
...
```

## 1.3. Names of MPS Controller Variables

A variable may be defined by means of the name *FCnn* where *nn* is a number of a variable in the controller according to the description of the controller manufacturer. It is allowed also to use symbolic names. Letter case does not matter.

**Table 1. Symbolic Names of MPS Controller Variables.**

FC1 - U1	FC30 - Z1
FC2 - U2	FC31 - Z2
FC3 - U3	FC32 - Z3
FC4 - I1	FC33 - R
FC5 - I2	FC34 - R1
FC6 - I3	FC35 - R2
FC7 - P	FC36 - R3
FC8 - Q	FC37 - FI
FC9 - S	FC38 - FI1
FC10 - f	FC39 - FI2
FC11 - cos	FC40 - FI3
FC12 - P1s	FC41 - P1s
FC13 - P1	FC42 - P2s

FC14 - P2	FC43 - P3s
FC15 - P3	FC44 - U1m
FC16 - Q1	FC45 - U2m
FC17 - Q2	FC46 - U3m
FC18 - Q3	FC47 - I1m
FC19 - S1	FC48 - I2m
FC20 - S2	FC49 - I3m
FC21 - S3	FC50 - KsU1
FC22 - cos1	FC51 - KsU2
FC23 - cos2	FC52 - KsU3
FC24 - cos3	FC53 - KsI1
FC25 - sin	FC54 - KsI2
FC26 - sin1	FC55 - KsI3
FC27 - sin2	FC56 - Hour
FC28 - sin3	FC57 - Min
FC29 - Z	FC58 - Sec

## 1.4. Definition of Nominal Values

In order to improve the reading of measure values you should define nominal value of voltage, of current and of power (UL, IL, P, Q, S). These values may be given for each station. To do this you should place them in the initialization file in a section named as the logical channel name.

### EXAMPLE

```
[ASMEN]
...
MPS1=MPS,1,COM2
MPS2=MPS,2,COM2
...
[MPS1]
UL = 660
IL = 100
...
[MPS2]
UL = 380
IL = 100
...
```

## 1.5. Driver Configuration

Nominal values may be defined in the section named MPS too. The values specified in this section are used as default ones for all controllers i.e. if the section of a given controller does not contain the nominal value, then it is taken from the MPS section.

If all controllers have the same nominal values, then the [MPS] section in the application INI file will be enough.

Diagnostic option:



*Sleep=YES/NO*

Meaning

- *yes* causes a change of the manner of short time period timing.

Default value

- default value is equal to *no*.



## 2. List of Tables

*Table 1. Symbolic Names of MPS Controller Variables..... 3*



<b>1.</b>	<b>MPS - DRIVER OF MPS PROTOCOL FOR POWER NETWORK PARAMETER METERS</b>	<b>3</b>
1.1.	DRIVER USE	3
1.2.	DEFINITION OF TRANSMISSION CHANNEL	3
1.3.	NAMES OF MPS CONTROLLER VARIABLES	3
1.4.	DEFINITION OF NOMINAL VALUES	4
1.5.	DRIVER CONFIGURATION	4
<b>2.</b>	<b>LIST OF TABLES</b>	<b>7</b>