



Powersoft S.p.A.

VAT no./Fiscal Code: IT 04644200489

Business Register of Firenze

Paid-up Share Capital: € 1.141.361,26

POWERSOFT.COM

SNMP SPECS

TECHNICAL DETAILS

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REVISION HISTORY

Revision	Date	Description	Issued by
1.0	16/06/20	First issue	L. Fibucchi
1.1	18/06/20	Implemented basic status fields	L. Fibucchi
1.2	14/09/21	Add protocol availability	F. Digiugno



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1. SCOPE

This document describes the information available through SNMP protocol. The aim is to let the user know critical and essential information about the status of the amplifier, especially in regard to its operating conditions.

2. TERMS, DEFINITIONS AND ABBREVIATIONS

For the purposes of this document, the following terms and definitions apply.
SNMP: Simple Network Management Protocol.

3. PROTOCOL AVAILABILITY

The following table depicts the availability of the SNMP protocol in the Powersoft models and the starting firmware version in which it was introduced:

MODEL	FW VERSION
Mezzo	1.3.2.2
Quattrocanali DSP Duecanali DSP	1.10.0.68
Ottocanali	1.10.0.68
X Series	1.10.0.68
T Series	1.10.0.68
TTM	1.10.0.112
Loto	1.10.0.68

4. PROTOCOL FIELDS

The following table represents the actual implemented information in SNMP protocol.

MODEL	DESCRIPTION
UpTime	Value represent the amount of time since last power-up sequence. Time resolution is 0.01 seconds.
Standby	Value is 1 if amplifier is in standby, else 0. Standby state includes both automatic standby (where available) and manual standby (where available).
Over Temperature	Value is 1 if the temperature of the amplifier overcomes the safe operating threshold, else 0.
Mains Alarm	Value is 1 if mains are out of the accepted range, else 0.
HW Protection	Value is 1 if amplifier protected one or more channels due to unsafe operating conditions, else 0. Unsafe conditions include short circuit detected, rails or mains voltage exceeding from their operating range and temperature exceeding maximum accepted threshold.
HW Fault	Value is 1 if amplifier detected a fault condition in its status, else 0.

5. TECHNICAL DOCUMENTATION

NET-SNMP-POWERSOFT-MIB DEFINITIONS ::= BEGIN

IMPORTS

MODULE-IDENTITY, OBJECT-TYPE, Integer32, Counter32, TimeTicks,
enterprises FROM SNMPv2-SMI

;

powersoft MODULE-IDENTITY

LAST-UPDATED "202006180000Z"

ORGANIZATION "www.powersoft.com"

CONTACT-INFO

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50018 Scandicci (FI)
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DESCRIPTION

"Amplify Powersoft MIB objects"

REVISION "202006180000Z"

DESCRIPTION

"First draft"

::= { enterprises 55933 }

powersoftAmpli OBJECT IDENTIFIER ::= { powersoft 1 }

powersoftAmpliStatus OBJECT IDENTIFIER ::= { powersoftAmpli 1 }

standby OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value is 1 if amplifier is in standby, else 0."

DEFVAL { 0 }

::= { powersoftAmpliStatus 1 }

overTemperature OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value is 1 if the temperature of the amplifier overcomes the safe operating threshold, else 0."

DEFVAL { 0 }

::= { powersoftAmpliStatus 2 }

mainsAlarm OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value is 1 if mains are out of the accepted range, else 0. "

DEFVAL { 0 }

::= { powersoftAmpliStatus 3 }

hwProtection OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value is 1 if amplifier protected one or more channels due to unsafe operating conditions, else 0."

DEFVAL { 0 }

::= { powersoftAmpliStatus 4 }

hwFault OBJECT-TYPE

SYNTAX Counter32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"Value is 1 if amplifier detected a fault condition in its status, else 0."

DEFVAL { 0 }

::= { powersoftAmpliStatus 5 }



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END

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