

PRIMATA
Tecnologia Eletrônica

Technical Specifications

SMD_NET

Energy Monitoring Web Portal

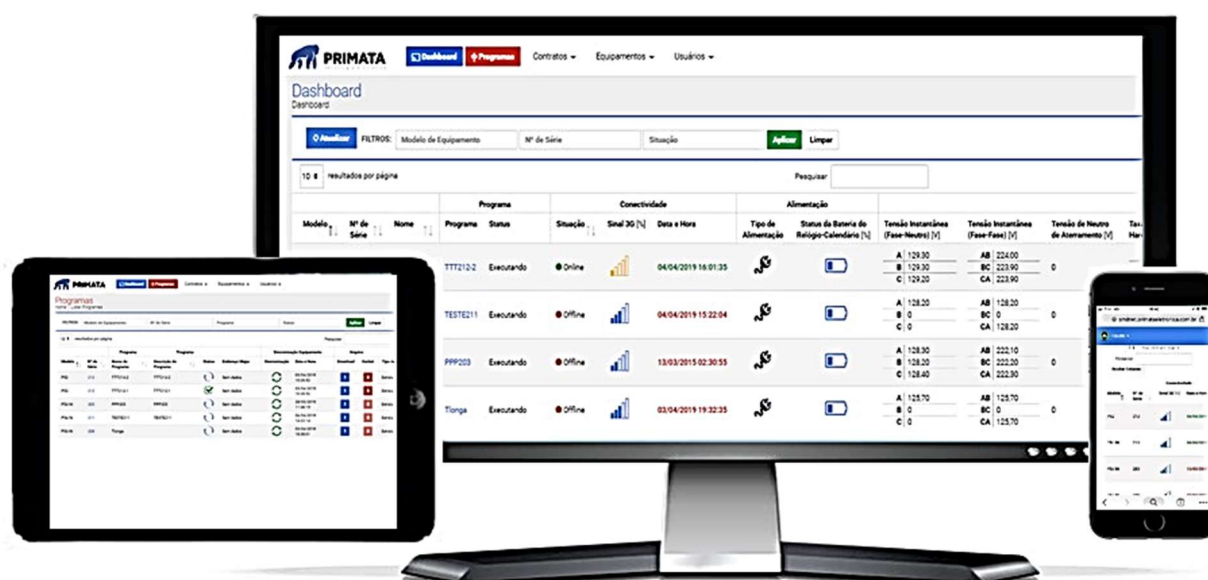


Presentation

The **SMD_NET – Energy Monitoring Web Portal** is a web application developed by **PRIMATA ELETRÔNICA** for **remote management and monitoring** of our line of Analyzers connected to the Internet.

Allows real-time management, via **3G / 2G / GPRS Modem** and **Wi-Fi Modem**, of the entire set of connected Analyzers, as well as **remote analysis and download** of data recorded through various graphical features, in a very intelligent and intuitive way.

The **SMD_NET** can be easily accessed via Internet through **PRIMATA ELECTRONICA**'s own data servers, according to the **SaaS (Software as a Service)** model, or through a license for use with the client's servers.



Applications

- ✓ Real time monitoring of the power quality of electrical installations, through any web browser and device (notebook, tablet or smartphone), allowing greater efficiency in identifying causes, defining solutions for corrections and preparing technical reports;
- ✓ Power comparison in a remote way aiming at fraud identification, reducing the risks involved in the operational process and anticipating actions based on previous events and analysis;
- ✓ Remote management of measurement campaigns carried out by energy concessionaires and permissionaires, generating savings with the logistics involved in the measurements and reducing the time needed to detect problems;
- ✓ Optimization of the use of Analyzers in the field, allowing the analysis of data without the need to access the equipment's Pen Drive;

Technical features

- ✓ Management of registration data of contracts, equipment, users, access permission control through profiles and passwords and control of changes through logs;
- ✓ Dashboard with analysis of instantaneous quantities, measured in real time;
- ✓ Dashboard with the programs created, in progress and completed of each equipment, with all its parameters;
- ✓ Remote management of programs on equipment;
- ✓ Native integration with the **Local SMD Software – Data Manipulation System**;

Main Information Displayed in Real Time

- ✓ Programs in the analyzer with the configured parameters;
- ✓ Instantaneous voltage values (Phase-Neutral, Phase-Phase and Ground Neutral Voltage);
- ✓ Instantaneous current values;
- ✓ Neutral current values;
- ✓ Active, reactive and apparent power values;
- ✓ Power factor;
- ✓ Rate of harmonic distortions per phase;
- ✓ Network frequency;
- ✓ Total cumulative energy consumption;
- ✓ Total cumulative energy provided;
- ✓ Number of valid measurements for DRP/DRC reports;
- ✓ Pen Drive connected to the equipment;
- ✓ Available memory in the Pen Drive (in days, hours or minutes);
- ✓ Clock-calendar battery status;
- ✓ Equipment status (Online / Offline);
- ✓ 3G / 2G / GPRS / Wi-Fi Signal Level;
- ✓ Date / time of network connectivity;

The top screenshot displays the 'Programas' page with the following table:

Modelo	Nº de Série	Nome do Programa	Descrição do Programa	Status	Exatidão Medida	Sincronização	Data e Hora	Download	Excluir	Tipo de Ligação	Tipo de Diagrama	Data Hora Início Programa	Tipo de Tensão	Detalhes do Programa
P52	212	TTTT12-2	TTTT12-2	✓ Sem dados	100%	100%	03/04/2019 13:20:52	100%	100%	Emissão	Injetado	21/03/2019 11:58:01	Indeterminado	22/03/2019
P52	212	TTTT12-1	TTTT12-1	✓ Sem dados	100%	100%	03/04/2019 10:23:02	100%	100%	Emissão	Injetado	21/03/2019 08:24:31	Por Tentar	21/03/2019
P54 N	208	PPP203	PPP203	✓ Sem dados	100%	100%	28/03/2019 11:36:15	100%	100%	Emissão	Injetado	27/03/2019 11:18:01	Indeterminado	28/03/2019
P54 N	211	TG3T211	TG3T211	✓ Sem dados	100%	100%	04/04/2019 14:21:14	100%	100%	Emissão	Injetado	04/04/2019 10:21:01	Indeterminado	05/04/2019
P54 N	208	Torça	Torça	✓ Sem dados	100%	100%	03/04/2019 18:26:01	100%	100%	Emissão	Injetado	20/03/2019 21:58:01	Indeterminado	21/03/2019

The bottom screenshot displays the 'Dashboard' page with the following table:

Modelo	Nº de Série	Nome	Programa	Status	Conectividade	Situação	Sinal 3G (%)	Data e Hora	Tipo de Alimentação	Tensão de Referência de Referência (V)	Tensão Instantânea (Fase-Neutro) (V)	Tensão Instantânea (Fase-Fase) (V)	Tensão de Medida de Alimentação (V)	Taxa de Distúrcias Interferências (%)	Proteção (%)
P52	212	212	TTTT12-2	Executando	Online	100%	100%	04/04/2019 16:01:35	100%	A 128,33 B 128,33 C 128,33	AB 222,83 BC 222,83 CA 222,83	0	A 0,00 B 0,00 C 0,00	60,00	
P54 N	211	TG3T211	Executando	Offline	100%	100%	04/04/2019 15:22:54	100%	100%	A 128,33 B 0 C 0	AB 128,33 BC 0 CA 128,33	0	A 0,00 B 0,00 C 0,00	54,67	
P54 N	203	PPP203	Executando	Offline	100%	100%	13/03/2019 02:38:53	100%	100%	A 128,33 B 128,33 C 128,33	AB 222,10 BC 222,20 CA 222,30	0	A 0,00 B 0,00 C 0,00	54,66	
P54 N	208	Torça	Executando	Offline	100%	100%	03/04/2019 14:22:35	100%	100%	A 125,70 B 0 C 0	AB 125,70 BC 0 CA 125,70	0	A 0,00 B 0,00 C 0,00	54,66	

System Requirements

Minimum Features – Server

- ✓ Framework PHP 7.2;
- ✓ PostgreSQL 10 data-base;
- ✓ WEB Apache 2 Server;
- ✓ Browsers IE 7, Firefox 14.0, Chrome 22.0;
- ✓ RAM 1GB;
- ✓ HD 30GB
- ✓ Ubuntu Server 16.04 Operational System;

Minimum Features – Displayer

- ✓ Browsers Firefox, Chrome and IE;
- ✓ RAM 1 GB;

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PRIMATA ELETRÔNICA products are in constant improvement. Therefore, the technical specifications contained in this material may be changed without previous notice. Check our website for possible updates.