

## **South & Central America Fire Pump Controllers Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Type (Electric Fire Pump Controller and Diesel Fire Pump Controller) and End User (Industrial, Commercial, and Residential)**

Market Report | 2022-12-19 | 92 pages | The Insight Partners

### **AVAILABLE LICENSES:**

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

### **Report description:**

The fire pump controllers market in South & Central America is expected to grow from US\$ 50.01 million in 2022 to US\$ 57.15 million by 2028. It is estimated to grow at a CAGR of 2.2% from 2022 to 2028.

#### **Emergence of Variable Speed Drive (VFD) Fire Pump Controllers**

A lead-lag system requires pump controls to switch the pump motors on and off as per the requirement. If a motor is started directly across the line at full power, it leads to issues, resulting in high starting currents. However, a better way to maintain the desired water pressure is by regulating the pump motor speed with a variable frequency drive (VFD). VFD helps to control the speed of AC induction motors by controlling the frequency and voltage supplied to the motor. It uses minimum energy, reduces motor starting current, cuts the wear and tear on the motor, provides extensive diagnostics, and reduces the required maintenance, among others. By using VFD, the controlled motor's efficiency is optimized and operated at maximum efficiency, regardless of the required flow and corresponding motor or pump speed. In addition, advanced pump-specific VFDs offer various features such as loss of prime detection, low/high-pressure level detection, detection of a pump in a no-flow condition, broken pipe protection, and pump over-cycle protection. Thus, all these factors make VFDs superior to mechanical devices regarding the regulation of pump flow and other features, allowing its direct implementation in complex pump control applications.

Further, VFDs help improve service quality and reduce associated maintenance costs. Depending on the specific situation, it can also reduce or eliminate the need for Pressure Relief Valves (PRVs). VFD-integrated fire pump controllers provide additional safety against equipment failure. Moreover, various companies are providing VFD solutions for fire safety systems. For instance, Metron provides SERIES MP800 VFD; it is a short circuit withstand rated and listed by Underwriters Laboratories and approved by Factory

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Mutual Research Corporation. These controllers are specifically used on reduced voltage type installations. Thus, such benefits of VFD will increase the demand for VFD-integrated fire pump controllers, which is expected to support the fire pump controllers market growth during the forecast period.

## Market Overview

The South & Central America fire pump controllers market is segmented into Brazil, Argentina, and the Rest of South & Central America. The major factor driving the South American fire pump controllers market is the presence of large number of fire protection companies across the region. For instance, Brazil alone is the home for more than 505 fire protection technology companies. Moreover, the country has many industrial facility construction projects in its pipeline, which would in turn drive the demand for fire pump installations, thereby driving the need for fire pump controllers. For instance, some of the major construction projects of Brazil in 2021 includes Jaiba Sol do Cerrado Solar Power Complex 1357 MW (US\$ 1,167 million), Belmonte 2 Solar Photovoltaic Power Complex 600 MW (US\$ 650 million), Pedro Leopoldo Brewery Plant (US\$ 345 million), Serra Branca SSM1&2 Solar Photovoltaic Power Complex 320 MW (US\$ 340 million), and Serra do Serido Wind Power Complex 214.6MW (US\$ 210 million). Such construction projects involved the installation of fire protection systems that included fire pump and fire pump controller systems across the region.

## South & Central America Fire Pump Controllers Market Revenue and Forecast to 2028 (US\$ Million)

### South & Central America Fire Pump Controllers Market Segmentation

The South & Central America fire pump controllers market is segmented into type, end user, and country.

Based on type, the market is bifurcated into electric fire pump controller and diesel fire pump controller. The electric fire pump controller segment registered the larger market share in 2022. Based on end user, the market is segmented into industrial, commercial, and residential. The industrial segment held the largest market share in 2022. Based on country, the market is segmented into Brazil, Argentina, and the rest of South & Central America. Brazil dominated the market share in 2022. ComAp AS, Eaton Corp Plc, Flowserve Corp, Grundfos Holding AS, Hubbell Inc, Master Control Systems Inc, NAFFCO FZCO, and Tornatech Inc are the leading companies operating in the fire pump controllers market in the region.

## Table of Contents:

### TABLE OF CONTENTS

1. Introduction
  - 1.1 Study Scope
  - 1.2 The Insight Partners Research Report Guidance
  - 1.3 Market Segmentation
2. Key Takeaways
3. Research Methodology
  - 3.1 Coverage
  - 3.2 Secondary Research
  - 3.3 Primary Research
4. SAM Fire Pump Controllers Market Landscape
  - 4.1 Market Overview
  - 4.2 SAM PEST Analysis
  - 4.3 Ecosystem Analysis
  - 4.4 Expert Opinion
5. SAM Fire Pump Controllers Market - Key Industry Dynamics

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- 5.1 Market Drivers
  - 5.1.1 Growing Construction Activities in Residential and Commercial Buildings
  - 5.1.2 Increasing Number of Product Launches
- 5.2 Market Restraints
  - 5.2.1 High Capital Investments for Installation and Maintenance of Fire Pump Controllers
- 5.3 Market Opportunities
  - 5.3.1 Growing Technological Advancement and Adoption of Fire Safety Systems
  - 5.3.2 Increasing Number of Strategic Alliances to Prompt Fire Safety
- 5.4 Future Trends
  - 5.4.1 Emergence of Variable Speed Drive (VFD) Fire Pump Controllers
  - 5.4.2 Rising Number of Initiatives Regarding Fire Safety
- 5.5 Impact Analysis of Drivers and Restraints
- 6. Fire Pump Controllers Market - SAM Market Analysis
  - 6.1 SAM Fire Pump Controllers Market Forecast and Analysis
- 7. SAM Fire Pump Controllers Market Analysis - By Type
  - 7.1 Overview
  - 7.2 SAM Fire Pump Controllers Market, By Type (2021 and 2028)
  - 7.3 Electric Fire Pump Controller
    - 7.3.1 Overview
    - 7.3.2 Electric Fire Pump Controller: Fire Pump Controllers Market Revenue and Forecast To 2028 (US\$ Million)
  - 7.4 Diesel Fire Pump Controller
    - 7.4.1 Overview
    - 7.4.2 Diesel Fire Pump Controller: Fire Pump Controllers Market Revenue and Forecast To 2028 (US\$ Million)
- 8. SAM Fire Pump Controllers Market Revenue and Forecast to 2028 - End-User
  - 8.1 Overview
  - 8.2 SAM Fire Pump Controllers Market, End-User (2021 And 2028)
  - 8.3 Industrial
    - 8.3.1 Overview
    - 8.3.2 Industrial: Fire Pump Controllers Market Revenue and Forecast To 2028 (US\$ Million)
  - 8.4 Commercial
    - 8.4.1 Overview
    - 8.4.2 Commercial: Fire Pump Controllers Market Revenue and Forecast To 2028 (US\$ Million)
  - 8.5 Residential
    - 8.5.1 Overview
    - 8.5.2 Residential: Fire Pump Controllers Market Revenue and Forecast To 2028 (US\$ Million)
- 9. SAM Fire Pump Controllers Market - Country Analysis
  - 9.1 Overview
    - 9.1.1 SAM Fire Pump Controllers Market Breakdown, by Country
      - 9.1.1.1 Brazil Fire Pump Controllers Market, Revenue and Forecast to 2028
        - 9.1.1.1.1 Brazil Fire Pump Controllers Market Breakdown, By Type
        - 9.1.1.1.2 Brazil Fire Pump Controllers Market Breakdown, End-User
      - 9.1.1.2 Argentina Fire Pump Controllers Market, Revenue and Forecast to 2028
        - 9.1.1.2.1 Argentina Fire Pump Controllers Market Breakdown, By Type
        - 9.1.1.2.2 Argentina Fire Pump Controllers Market Breakdown, End-User
      - 9.1.1.3 Rest of SAM Fire Pump Controllers Market, Revenue and Forecast to 2028
        - 9.1.1.3.1 Rest of SAM Fire Pump Controllers Market Breakdown, By Type
        - 9.1.1.3.2 Rest of SAM Fire Pump Controllers Market Breakdown, End-User

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- 10. Industry Landscape
  - 10.1 Overview
  - 10.2 Market Initiative
  - 10.3 Merger and Acquisition
- 11. Company Profiles
  - 11.1 ComAp AS
    - 11.1.1 Key Facts
    - 11.1.2 Business Description
    - 11.1.3 Products and Services
    - 11.1.4 Financial Overview
    - 11.1.5 SWOT Analysis
    - 11.1.6 Key Developments
  - 11.2 Eaton Corp Plc
    - 11.2.1 Key Facts
    - 11.2.2 Business Description
    - 11.2.3 Products and Services
    - 11.2.4 Financial Overview
    - 11.2.5 SWOT Analysis
    - 11.2.6 Key Developments
  - 11.3 Flowserve Corp
    - 11.3.1 Key Facts
    - 11.3.2 Business Description
    - 11.3.3 Products and Services
    - 11.3.4 Financial Overview
    - 11.3.5 SWOT Analysis
    - 11.3.6 Key Developments
  - 11.4 Grundfos Holding AS
    - 11.4.1 Key Facts
    - 11.4.2 Business Description
    - 11.4.3 Products and Services
    - 11.4.4 Financial Overview
    - 11.4.5 SWOT Analysis
    - 11.4.6 Key Developments
  - 11.5 Hubbell Inc
    - 11.5.1 Key Facts
    - 11.5.2 Business Description
    - 11.5.3 Products and Services
    - 11.5.4 Financial Overview
    - 11.5.5 SWOT Analysis
    - 11.5.6 Key Developments
  - 11.6 Master Control Systems Inc
    - 11.6.1 Key Facts
    - 11.6.2 Business Description
    - 11.6.3 Products and Services
    - 11.6.4 Financial Overview
    - 11.6.5 SWOT Analysis
    - 11.6.6 Key Developments

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- 11.7 NAFFCO FZCO
  - 11.7.1 Key Facts
  - 11.7.2 Business Description
  - 11.7.3 Products and Services
  - 11.7.4 Financial Overview
  - 11.7.5 SWOT Analysis
  - 11.7.6 Key Developments
- 11.8 Tornatech Inc
  - 11.8.1 Key Facts
  - 11.8.2 Business Description
  - 11.8.3 Products and Services
  - 11.8.4 Financial Overview
  - 11.8.5 SWOT Analysis
  - 11.8.6 Key Developments
- 12. Appendix
  - 12.1 About the Insight Partners
  - 12.2 Word Index

**South & Central America Fire Pump Controllers Market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Type (Electric Fire Pump Controller and Diesel Fire Pump Controller) and End User (Industrial, Commercial, and Residential)**

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