

# MV YWAM PNG MEDICAL VESSEL

PAPUA NEW GUINEA

HEALTH CARE

## OVERVIEW

The Youth With A Mission (YWAM) Papua New Guinea (PNG) medical vessel is a 60 meter passenger cruise ship with an on-board dental clinic, surgical theatre, and laboratory that provides access to healthcare services, supplies, and support to rural health workers and hundreds of remote villages every year. Built in Western Australia in 1999, the MV YWAM PNG was refitted into a training and medical ship accommodating 130+ volunteers.

## PROJECT DETAILS

Reliable Controls Authorized Dealer, Austec Building Automation Pty Ltd. successfully completed this retrofit project with network architecture consisting of a MACH-ProWebCom™ controller and four MACH-ProPoint™ expansion modules. An MS/TP MACH-ProView™ controller was installed in the plant room for local technician access and adjustment of values with a graphical interface made available to the bridge via Ethernet.

Mechanical equipment controlled on the vessel included two circulating, chilled-water pumps and two condenser-water pumps utilizing the seawater as a means to cool the coils.

Prior to the retrofit, the ships existing Programmable Logic Controllers (PLC) were failing and overdue for an upgrade. The tropical conditions made the crew uncomfortable when the chiller was not operational. During the retrofit, the plant was not in 100% working order and was undergoing maintenance at the same time as the commissioning was taking place. Furthermore a strict timeline to complete the job while the ship was in port needed to be met due to a scheduled departure. This all proved to be quite a challenge. Reliable Controls and Austec Building Automation Pty Ltd. are very pleased to have played an important role in retrofitting this vital vessel for Papua New Guinea.

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[www.reliablecontrols.com/projects/overview](http://www.reliablecontrols.com/projects/overview)



### PROJECT TYPE:

Retrofit

### INSTALLATION TYPE:

Chiller

### TOTAL AREA:

900 m<sup>2</sup> (9687.52 ft<sup>2</sup>)

### PROTOCOL:

BACnet®

### POINTS:

61

### EQUIPMENT INSTALLED:

1 MACH-ProWebCom™  
 4 MACH-ProPoint™  
 1 MACH-ProView™ LCD

### RELIABLE CONTROLS® DEALER:

Austec Building Automation Pty Ltd.

