

CAE ENGINEERING PTE LTD
YOUR PUMPING SYSTEMS SOLUTION PROVIDER



ELECTRIC FIRE PUMP CONTROLLER

COMPILE TO AS2941: 2013, CP 52 AND SS575 STANDARDS



FIRE PUMP CONTROLLERS

BUILT TO AS2941-2013 (5TH EDITION)

Model: FPC VER-01

STANDARD FEATURES

- IP55 ENCLOSURE.
- INCOMING, OUTGOING AVAILABLE INDICATION.
- PHASE REVERSAL / PHASE LOSS ALARM.
- PUMP ON DEMAND, RUN, OVERCURRENT, FAILED TO START, CHARGER/BATT FAILED AND MAIN SUPPLY FAILURE INDICATION.
- AC 3PHASE AMPERE/VOLTAGE/POWER DISPLAY (DIGITAL METER).
- BATTERY CHARGER DC VOLTAGE & AMPERE DISPLAY.
- START AND STOP PUSHBUTTONS.
- LAMP TEST PUSHBUTTON.
- REMOTE START PROVISION.
- INTERLOCK AND LOCK OUT PROVISION.
- BUZZER WITH MUTE PUSHBUTTON.
- VOLTAGE FREE CONTACT FOR REMOTE MONITORING.

OPTIONAL

- OP1 - Anti-condensation heater & thermostat.
- OP2 - Data log, pressure & event recording.
- OP3 - Modbus with RS485 connection.

CONTACT PROVIDED FOR FIELD EQUIPMENT

- PROVISION FOR REMOTE MUTE PUSHBUTTON.
- DC12V SUPPLY TO EXTERNAL FLASHING LIGHT.
- DC12V SUPPLY TO EXTERNAL ALARM BELL.
- PROVISION FOR REMOTE START (PRESSURE SWITCH OR OTHERS).
- PROVISION FOR M/V INTERLOCKING.
- PROVISION FOR MAIN PUMP INTERLOCK AND LOCKOUT.

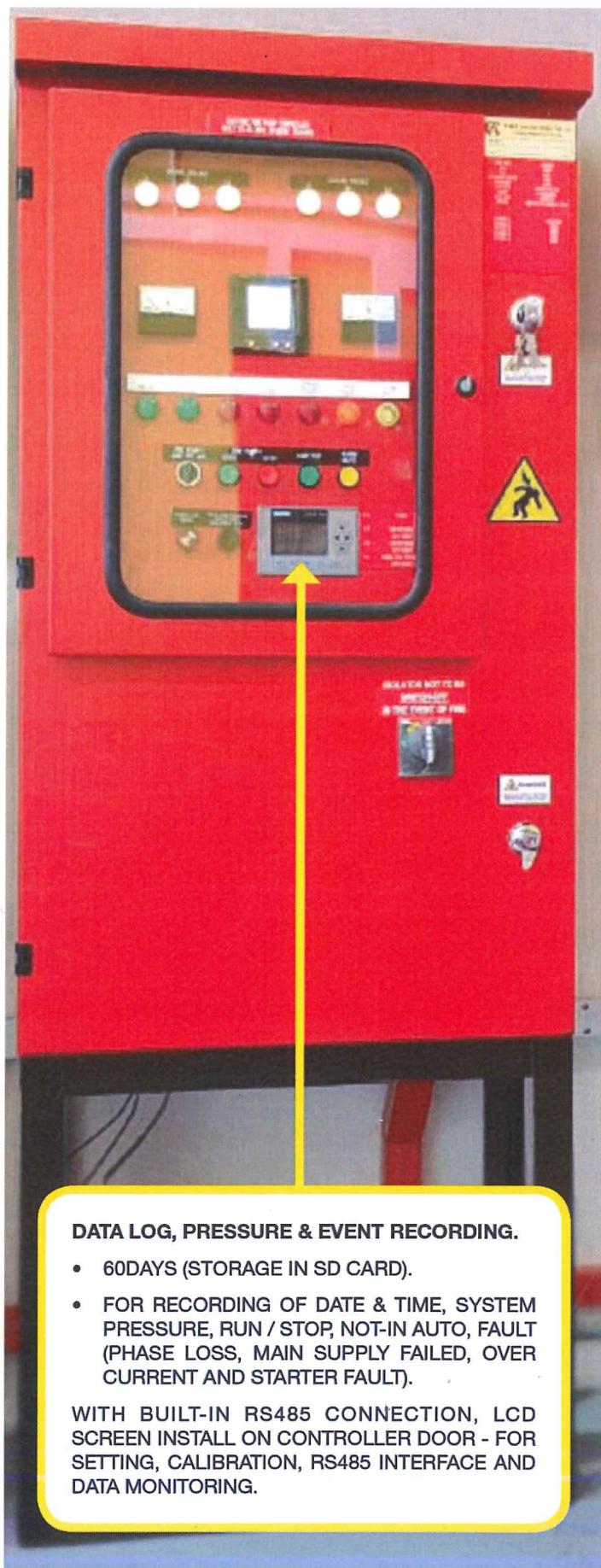
VOLTAGE FREE CONTACT FOR REMOTE MONITORING

- PHASE SEQUENCE / MAIN INCOMING PHASE FAILURE.
- CONTROL CHARGER / BATT FAILURE.
- FIRE PUMP "RUN".
- COMMON ALARM (CHARGER/BATT FAILURE OR MAIN / PHASE FAILURE OR PUMP FAIL TO START OR OVER CURRENT).
- SELECTOR SWITCH "NOT IN AUTO POSITION".
- FIRE PUMP "FAILED TO START".

DATA LOG, PRESSURE & EVENT RECORDING.

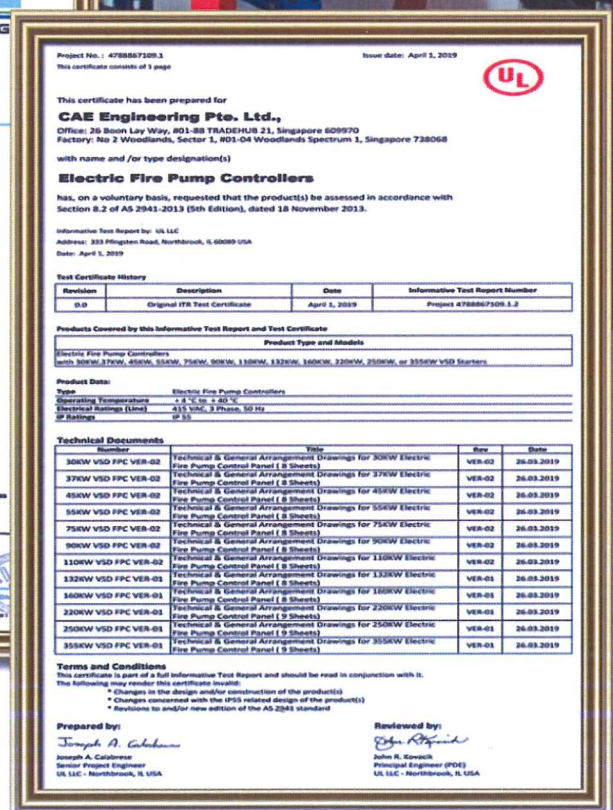
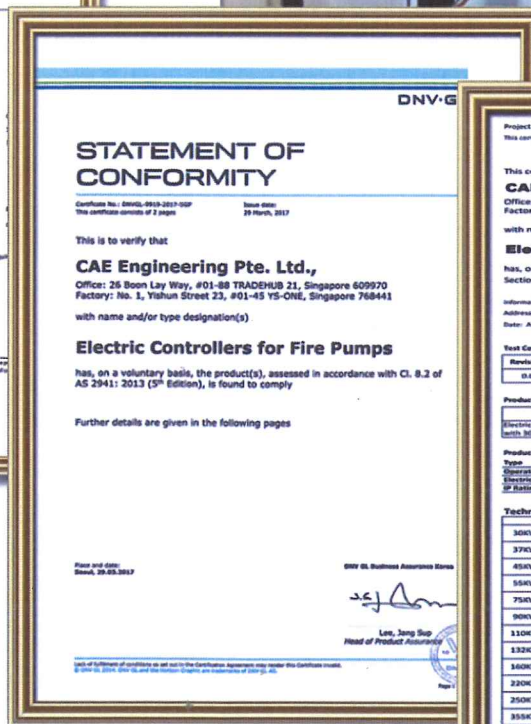
- 60DAYS (STORAGE IN SD CARD).
- FOR RECORDING OF DATE & TIME, SYSTEM PRESSURE, RUN / STOP, NOT-IN AUTO, FAULT (PHASE LOSS, MAIN SUPPLY FAILED, OVER CURRENT AND STARTER FAULT).

WITH BUILT-IN RS485 CONNECTION, LCD SCREEN INSTALL ON CONTROLLER DOOR - FOR SETTING, CALIBRATION, RS485 INTERFACE AND DATA MONITORING.



All functions of the fire pump controller shall be tested to ensure compliance with the AS2941, SS575 OR CP52 REQUIREMENT.

- An individual fire pump controller shall be provided for each fire pump and shall have a degree of protection not inferior to IP54.
- The cabinet is provided with lockable access doors & viewing panel which is less than 40% of the door area.
- The pump circuit shall be isolated and protected by a circuit breaker that is capable of being locked in the "ON" position (power supply on).
- The transition for the motor starter through the starting steps shall be automatic.
- Motor attains full speed before 15 seconds on receipt of start signal.
- A test facility shall be provided for the testing of indicator lights and audible alarms.
- Ammeter is provided to indicate the phase currents of the motor.
- The monitor battery is capable of maintaining the monitoring and alarm functions for greater than 72 hours.



PROJECT REFERENCE LIST

LTA

R252 Loyang Bus Depot, Kim Chuan Depot, EW31 Pioneer, Mandai Depot, etc.

AIRPORT

T3 Replacement, Changi Airport T4, Airbase 7900, CAS, Changi Jewel, Tengah Air Base, Seletar Airport, etc.

NURSING HOME / HOSPITAL

Chua Chu Kang, Geyang, Chai Chee, NCID, Yishun Polyclinic, NCC, etc.

Camp

Gombak, Kranji, LCK, Seletar, DSTA HQ, Bedok, etc.

Data Centre

Telin, Google, Sin 60, etc.

HDB

DAWSON C1 / C2 / C3 / C4 / C5

PUNGGOL C3 / C6 / C7 / C8

DEFU CITY, etc.

Government

ICA Building, Cantorment Police HQ, New State Court, CPF Building, Health Promotion Board, Ministry of Foreign Affairs, RSAF, Selarang Park, etc.

Substation

Jurong West Ave 4, Boon Lay, Eunos Road, Gambas, Yishun, Ann Siang, Bulim, Clean Tech, Punggol, Jurong Island, Jurong Pier, etc.

School

NUS E4, NUS 58, NUH, NTU, etc.

Ports

PSA Pasir Panjang

Commercial

SOM Tanjong Pagar Center, Westgate, Big Box, Aviva Building Markano, City Gate, Mundipharma, Sturdee Rd Condo, Queens St Condo, GE Seletar, Paya Lebar, Micron, Woodland Square, ST Electronic, Park Mall, Funan, etc.

Overseas Project

Malaysia - KL phase 1-7 MRT station, Teleflex, etc.

Australia - Geelong Hospital, Victoria One, Bendigo Hospital, Light House, Monash Children Hospital, Coolalinga shopping centre, Claremont Manor, Pentridge Plaza, Aurora, etc.

Maldives - IGMH hospital, Kandima Resort, Mamutta Resort, Embodhoo resort, etc.

Cambodia - Naga World Hangar, UCB Bank, Diamond Inn, etc.

Myanmar - Cycle and Carriage, etc.

Philippines - Banga chemical plant, sunshine chemical plant, etc.



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MALAYSIA

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