



PREMIUM QUALITY INDUSTRIAL RO CONTROLLER

NFINITY









INTRODUCTION:

Thank you for purchasing the A-series RO controllers manufatured to the highest standards.

This user and maintenance manual is a document issued by AETS INDIA in relation to the products to which it refers, it is to be considered an integral part of the product itself for its whole life, even in case of eventual sale to third parties, up to the demolition and disposal of the same.

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Purposes of this manual:

Provide operators and maintenance personnel with all the necessary information and warnings so that they can carry out their work in conditions of maximum safety.

Putting the user in a position to use the equipment correctly and safely, as well as keeping it in a state of efficiency and safety.

IDENTIFICATION DATA:

For the design and production of the product technical rules have been used in full compliance with the safety regulations in force.

AFTS INDIA

E/87, ELECTRONIC ESTATE, GEZIA GIDC 26, OPPO: DMART, GANDHINAGAR: 382028, GUJARAT, INDIA

www.infinityequipments.com

Declares to be the Supplier of the equipment and to be the contact person for any technical assistance operations of a maintenance nature and / or modification of the equipment.

If the explanations given here are not clear or incomplete, and one or more parts of the manual itself are not perfectly understandable, it is necessary to contact the Supplier to obtain all the necessary additional information; if the Supplier finds the actual need, it undertakes to provide a new manual enriched with the clarifications. In order to obtain the best performance of the product, it is recommended to strictly follow the instructions contained in this manual which must be carefully read and understood in its entirety; the indications concerning the use of the equipment must be carried out in an absolutely precise manner according to what is specified below. This manual is strictly technical in nature, therefore exclusively owned by AETS INDIA that all rights are reserved; any reproduction, even if partial, is forbidden according to the law.



CAUTION!

The use of the equipment in configurations other than those listed here or for work other than those established by the Supplier is not permitted.

Different uses, improper, and / or incorrect, compared to those expressly indicated in the manual automatically void any responsibility of the Supplier as not foreseen, and therefore not specifically covered in the risk analysis.

it is necessary to read what is reported in the manual before starting any operation. This symbol emphasizes this need. Keep this manual for future reference.







TEST REPORT INDUSTRIAL RO CONTROL PANEL

NAME & ADDRESS OF CUSTOMER :			
DATE OF MFG. :	DATE OF DISPATCH. : PANEL'S CUT OUT SIZE :		
PANEL'S MODEL NO. :			
PANEL'S OVERALL DIMENSION :			
WORKING PA	RAMETER T	EST	
PANEL PARAMETER	НРР	RWP	REMARK
PUMP UNDER LOAD TRIPPING CHECKED	TRIPPING	TRIPPING	CHECKED 4
PUMP OVER LOAD TRIPPING CHECKED	TRIPPING	TRIPPING	CHECKED 🗸
AMPERE CURRENT TRIPPING CHECKED	TRIPPING	TRIPPING	CHECKED 🗸
SINGLE PHASE PREVENTION WORKING CHECKED	TRIPPING	TRIPPING	CHECKED
AUTO/MANUAL FUNCTION CHECKED	TRIPPING	TRIPPING	CHECKED ©
ONLINE TDS/CONDUCTIVITY DISPLAY CHECKED	TRIPPING	TRIPPING	CHECKED ©
CONTACTOR/RELAY WORKING CHECKED	TRIPPING	TRIPPING	CHECKED ©
PUMP DRY RUN CHECKED	TRIPPING	TRIPPING	CHECKED ©
FLUSHING SV WORKING CHECKED	TRIPPING	TRIPPING	CHECKED ©
DOSING PUMP WORKING CHECKED	TRIPPING	TRIPPING	CHECKED ©
AUTO MPV WORKING CHECKED	TRIPPING	TRIPPING	CHECKED (
VISUAL TEST		REMARK	
POWER ON SWITCH WORKING		CHECKED	
AMPERE CURRENT CALIBRATION		CHECKED	
TDS / CONDUCTIVITY CALIBRATION		CHECKED	
ALL LCD/LED DISPLAY WORKING		CHECKED	
ALL STICKER PASTING		CHECKED	
ALL SWITCHES WORKING FUNCTION		CHECKED	
ALL WIRING / CONNECTOR PLACEMENT		CHECKED	D
INPUT/OUTPUT VOLTAGE		CHECKED	9
PACKAGING		CHECKED	

ALL ABOVE PARAMETERS TESTED & CHECKED BY....





RO OPERATION LOGIC:

This microcontroller based panels are ideally suited for small and medium sized RO plants as they have intact operating logic of the process pre-programmed. This panel receives inputs from low pressure switch, high pressure switch, raw water tank floaty, treated water tank floaty, dosing chemical floaty and controls mainly three outputs raw water pump, high pressure pump and flushing solenoid valve. The advance feature also takes care of the required motor protection such as over load, dry running and phase sequencing.

By switching ON(on/off switch) power supply of the panel, if the level of treated water tank is low and level of raw water tank is high, the raw water pump will start and the reject solenoid valve will be open for pre- programmed time. After flushing, the microcontroller will check the low pressure input, if the input is high (short), the high pressure pump will be ON and fast flushing will take place for pre-programmed time which can be altered in settings. So RO will run smoothly until the treated water tank filled full by water.

This panel is also supporting AUTO MULTIPORT VALVE integration which can be connected on auxiliary inputs.

PANEL CONFIGURATION

Туре	1-1	1-3	3-3
RAW WATER PUMP	Single \oplus Phase	Single \oplus Phase	Three \oplus Phase
HIGH PRESSURE PUMP	Single	Three φ Phase	Three φ Phase

TERMINAL CONNECTION

TERMINAL	DESCRIPTION	CONNECTION
POWER INPUT CONNECTION	INPUT SUPPLY	RYB/P-PHASE N-Neutral
HPP OUTPUT	HIGH PRESSURE PUMP CONNCETION	RYB/P-PHASE
RWP OUTPUT	RAW WATER PUMP CONNECTION	RYB/P-PHASE
DOSING PUMP OUTPUT	DOSING PUMP CONNECTION	P-PHASE N-NEUTRAL
FLUSHING VALVE OUTPUT	SOLENOID VALVE	P-PHASE N-NEUTRAL
HPS INPUT	HIGH PRESSURE SWITCH	C-COMMON NO-NORMALLY OPEN
LPS INPUT	LOW PRESSURE SWITCH	C-COMMON NO-NORMALLY OPEN
RAW WATER TANK INPUT	LEVEL FLOATY	C-COMMON NO-NORMALLY OPEN
TREATED WATER TANK INPUT	LEVEL FLOATY	C-COMMON NO-NORMALLY OPEN

FACTORY SETTINGS

• There are mainly 3 key provided for operation.







 Here, Set button used to change the mode of operation from manual to auto and vice-versa. It is also used to save the settings and to enter in particular function.

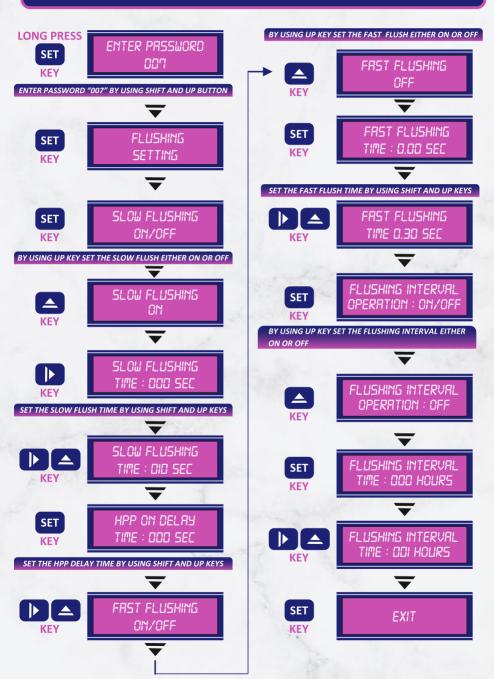
- · Here shift button used to scroll the curser.
- Here up button used to input character or number or to change the function.



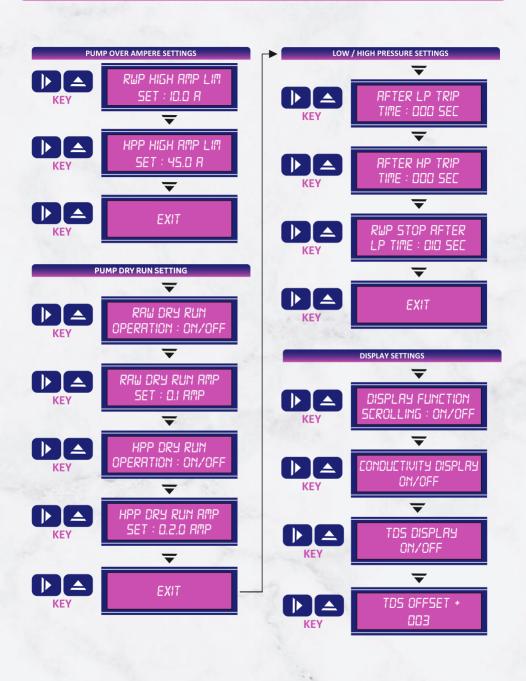




AUTOMATIC MEMBRANE FLUSHING SETTING



AMPERE, VOLTAGE, DISPLAY SETTINGS



AMPERE, VOLTAGE, DISPLAY SETTINGS

















i Solo Auto MPV



INFINITY PANEL TO ALL MPV SETTING













LONG PRESS

SET

ENTER PRSSWORD 123



SET KEY RUTO MPV CONTROL SETTING



SET KEY RUTO MPV OPERATION: ON



SET KEY RUTO MPV TYPE : RUNXIN OLD



SET KEY AUTO MPV TYPE : RUNXIN NEW



SET KEY RUTO MPV TYPE : OTHER



SET KEY RUTO MPV TYPE : INITIRTIVE > SET KEY NUMBER OF MPV:

SET

NUMBER OF MPV: 2



NUMBER OF MPV: 3



EXIT!



QUIT





INFINITY TO i-SOLO INITIATIVE AUTO MPV SETTING



INFINITY PANEL SETTING FOR AUTO MPV i-SOLO INITIATIVE

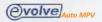
LONG PRESS: SET KEY
PASSWORD: 123
MPV OPERATION: ON/OFF
MPV TYPE: i-SOLO INITIATIVE
SELECT NO OF VALVE: 00

PASSWORD 084

Set Sensor as PUMP TIME
Set AUX output 1 in MODE 1
Set AUX output 2 in MODE 6
Set AUX input 1 as PULSE
Set EXT PULSE as 01

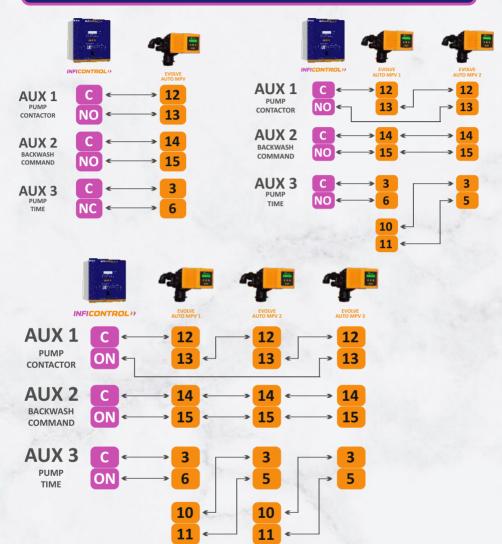


INFICONTROL >>





INFINITY TO e-VOLVE INITIATIVE AUTO MPV SETTING



INFINITY PANEL SETTING FOR AUTO MPV e-VOLVE INITIATIVE

LONG PRESS: SET KEY
PASSWORD: 123
MPV OPERATION: ON/OFF
MPV TYPE: e-VOLVE INITIATIVE
SELECT NO OF VALVE: 00

e-VOLVE INITIATIVE AUTO MPV SETTING

PASSWORD 678

(PUMP ON TIME)

PASSWORD 456
POSITION TIMING

INFINITY CONTROL PANEL TO NEW F SERIES RUNXIN AUTO MPV



INFICONTROL >>

DICOM





AUTO MPV 1





NO



NEW F SERIES RUNXIN AUTO MPV



AUTO CONTROLLER



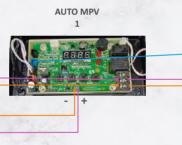
PUMP TIME

NO

C

C

NO



AUTO MPV 2



AUX 2 BACKWASH COMMAND

PUMP

TIME





AUX 2

BACKWASH

COMMAND AUX 3

PUMP

TIME



INFINITY PANEL SETTING FOR

AUTO MPV RUNXIN (F) SERIES

LONG PRESS: SET KEY

PASSWORD: 123

MPV OPERATION: ON/OFF MPV TYPE: RUNXIN NEW (F)

SELECT NO OF VALVE: 00





AUTO MPV

1



AUTO MPV

2



RUNXIN NEW F SERIES AUTO MPV SETTING

b - 0.1 c - 0.1

1 - 10: Service hours 10 hours

2 - 1.0: Backwash time 10 minute

3 -1.0: Rinse time 10 minute

NOTE!

Above logic & wiring diagram is applicable for following models only

F204Q2: 3/4" Filter Valve

F204Q4: 1" Filter Valve

S204Q4: 1" Softener Valve

INFINITY CONTROL PANEL TO REGULAR SERIES RUNXIN AUTO MPV



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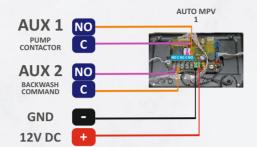
DICOM®





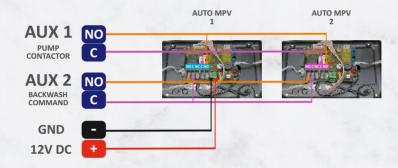


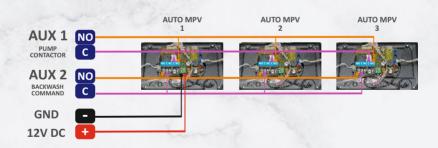
INFINITY AUTO CONTROLLER











INFINITY PANEL SETTING FOR AUTO MPV RUNXIN REGULAR

LONG PRESS : SET KEY
PASSWORD : 123
MPV OPERATION : ON/OFF

MPV TYPE: RUNXIN REGULAR
BACKWASH TIME: 00:00:00
SELECT NO OF VALVE: 00

RUNXIN REGULAR AUTO MPV SETTING

b - **0.1** c - **0.1**

1 - 10 : Service hours 10 hours

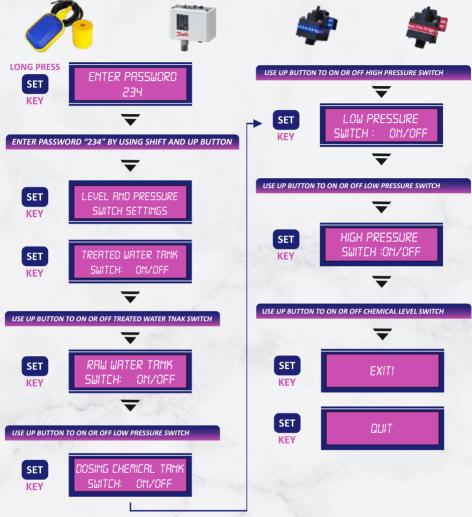
2 - 1.0 : Backwash time 10 minute

3 -1.0: Rinse time 10 minute





LEVEL & PRESSURE SWITCH SETTING





TECHNICAL SERVICE SUPPORT



+91 93748 48458

If you want more information regarding our control panel, you can drop WhatsApp message to our technical support team on following number .

Also, you can follow our YouTube channel.





TROUBLESHOOTING





LOW PRESSURE REFORE HPP

- . Check C & NO contact. If not, connect it.
- · Increase pressure or reduce set point of pressure
- Switch not connected with panel





HIGH PRESSURE BEFORE MAMBRANE

- Reduce pressure or increase the set point value of pressure before membrane
- Check C & NO contact. If not, connect it properly.





TREATED WATER TANK FULL!

- · Tank may be full.
- Floaty not connected. Short floaty terminal if don't want to connect it .
- · Check C & NC contact. If not, connect it properly.





TREATED WATER TANK EMPTYI

- Tank may be full.
- Floaty not connected. Short floaty terminal if don't want to connect it .
- . Check C & NC contact. If not, connect it properly.





RRW WATER PUMP DRY RUN TRIP!

- · If current drawn by the pump is less than set value.
- · If tank is empty.
- · Check the source or change the set point.





RAW WATER PUMF OVERLOAD TRIP

- If current more taken by the pump than the seted value.
- · Check the source or change the set point.





HIGH PRESSURE PUMP DRY RUN TRIP!

 If current drawn by the pump is less than set value. Or if tank is empty. Check the source or change te set point.





OVERLOAD TRIP

 Motor is drawing more current. Check motor. Or change the set point of your choice.





SPP TRIP R-Y-8 PHRSE ERROR

· For Check the phase sequence of R-Y-B phases connected to motor





LIMITED WARRANTY

THE PRODUCTS OF AETS INDIA ARE COVERED AGAINST ALL PRODUCTION OR MATERIAL DEFECTS FOR 2 YEARS FROM THE DATE OF PURCHASE.

ANY EVENTUAL REQUEST FOR WARRANTY INTERVENTION MUST BE ACCOMPANIED BY A PROOF OF PURCHASE SHOWING THE DATE AND DOCUMENTATION ON THE DEFECT FAILURE.

IT IS ADVISABLE TO ALWAYS KEEP THE INVOICE OR RECEIPT.

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THIS WARRANTY IS ONLY VALID IF THE INVOICES ARE COMPLETELY SETTLED AT THEIR CONTRACTUAL DEADLINE.

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GARANTIE LIMITÉE

LES PRODUITS DE AETS INDIA SONT COUVERTS CONTRE TOUS DÉFAUTS DE FABRICATION OU DE MATIÈRES PENDANT

2 ANS À COMPTER DE LA DATE D'ACHAT.

TOUTE DEMANDE ÉVENTUELLE D'INTERVENTION DE GARANTIE DOIT ÊTRE ACCOMPAGNÉE D'UNE PREUVE D'ACHAT INDIQUANT LA DATE ET LA DOCUMENTATION SUR L'ÉCHEC DU DÉFAUT.

IL EST CONSEILLÉ DE TOUJOURS CONSERVER LA FACTURE OU LE REÇU.

CETTE GARANTIE EST LIMITÉE À LA RÉPARATION OU AU REMPLACEMENT, À LA DISCRÉTION DE BLUESPACE INDUSTRIES LTD, DES PRODUITS DÉFECTUEUX, SOUS CONDITION D'AVOIR ÉTÉ UTILISÉS SELON LES INSTRUCTIONS CONTENUES DANS CE MANUEL, S'ILS NE SONT PAS MODIFIÉS DE QUELQUE MANIÈRE QUE CE SOIT

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CETTE GARANTIE N'EST VALABLE DANS LE CAS DES FACTURES NON-RÉGLÉES À LEUR DATE D'ÉCHÉANCE.

POUR RÉCLAMER UNE GARANTIE ET DEMANDER UNE RÉPARATION OU UN REMPLACEMENT D'UN ARTICLE, CONTACTEZ VOTRE REVENDEUR.

GARANZIA LIMITATA

I PRODOTTI DI AETS INDIA SONO COPERTI CONTRO TUTTI I DIFETTI DI PRODUZIONE O DI MATERIALE PER 2 ANNI DALLA DATA DI ACQUISTO.

OGNI EVENTUALE RICHIESTA DI INTERVENTO IN GARANZIA DEVE ESSERE ACCOMPAGNATA DA UNA PROVA DI ACQUISTO RIPORTANTE LA DATA E DOCUMENTAZIONE SUL DIFETTO RISCONTRATO.

SI CONSIGLIA DI CONSERVARE SEMPRE LA FATTURA O LO SCONTRINO FISCALE.

QUESTA GARANZIA È LIMITATA ALLA RIPARAZIONE O SOSTITUZIONE, A DISCREZIONE DI AETS INDIA, DEI PRODOTTI DIFETTOSI, SE OGGETTO DI USO NORMALE CONDOTTO SECONDO LE ISTRUZIONI RIPORTATE IN QUESTO MANUALE D'USO, SE NON ALTERATI IN ALCUN MODO.

LA PRESENTE GARANZIA NON COPRE I DANNI DOVITI AL GELO O LEGATI ALL'AZIONE DI PRODOTTI CHIMICI

OGNI ALTRO COSTO (TRASPORTO, MANODOPERA, ECC...) O RISARCIMENTO DANNI È ESCLUSO DALLA PRESENTE GARANZIA.

AETS INDIA NON È RESPONSABILE PER QUALSIASI DANNO, DIRETTO O INDIRETTO, DERIVANTE DA

UN'INSTALLAZIONE NON CORRETTA, DA COLLEGAMENTI ERRONEI O DA UN USO IMPROPRIO DEL PRODOTTO.

LA PRESENTE GARANZIA È SOLO VALIDA SE LE FATTURE SONO SALDATE ALLA LORO SCADENZA CONTRATTUALE.

PER USUFRUIRE DELLA PRESENTE GARANZIA E RICHIEDERE UN INTERVENTO DI RIPARAZIONE O SOSTITUZIONE DI UN ARTICOLO, CONTATTARE IL PROPRIO RIVENDITORE.





PRODUCT SERVICE REPAIR FORM

ENCLOSE THE PRESENT FORM TO THE DELIVERY NOTE

	DATE
SENDER	
Company name	
Address	
Phone no.	
Contact person	
PRODUCTTYPE (see product label)	
Make a Tall in 1048 and	
DEVICE CODE	
S/N (serial number)	
OPERATING CONDITIONS	
Location/installation description	
Location/installation description	
Start-up (date)	
DESCRIPTION OF PROBLEM	
ELECTRICAL	
Connections, connector, cables	
Operating controls (keyboard, display, etc.)	
Elettronics	
Other	
NOT OR INADEQUATE FUNCTION/OTHER	
I declare that the	
5,	
Signature of the compiler	Company stamp







SCAN FOR MORE



A product by:

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