



FG Wilson Transfer Panel Guide

Load Transfer Panels

24 Hour Power Protection 365 days a year...

FG Wilson's range of intelligent Load Transfer Panels offer you peace of mind.

The FG Wilson Load Transfer Panel range offers an electronically controlled response to power outages. With flexible, upgradeable options and a high level of functionality FG Wilson transfer panels provide 24-hour automatic control of standby generator sets, 365 days a year.

Load Transfer Panel Range

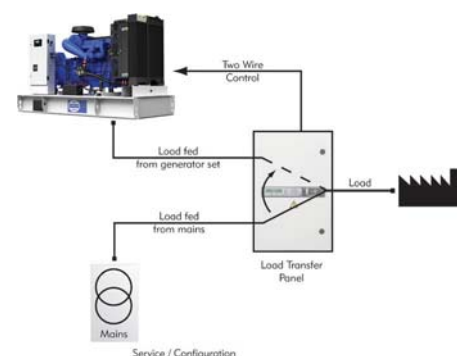


Benefits

- Fully automatic mains failure sensing and generator set start signal
- Pre-programmed enabling the panel to run on installation with the ability to customise if necessary
- Fast acting switches reduce transfer times between set and utility power
- Available from 63 – 3200A
- Seamless integration with FG Wilson digital control panels

Features

- Automatic and manual operation
- Automatically provides generator set start signal upon detection of mains failure, overvoltage or loss of phase
- Automatic mains re-transfer function
- Flexible, upgradeable options
- Test operations and sequences accessible from panel or remotely
- Manual switch operation possible via external handle
- LED functions display showing generator set / mains availability and switch position
- LCD display for voltage and timers
- Load transfer panel range meets ATS IEC 60947-6-1 standard

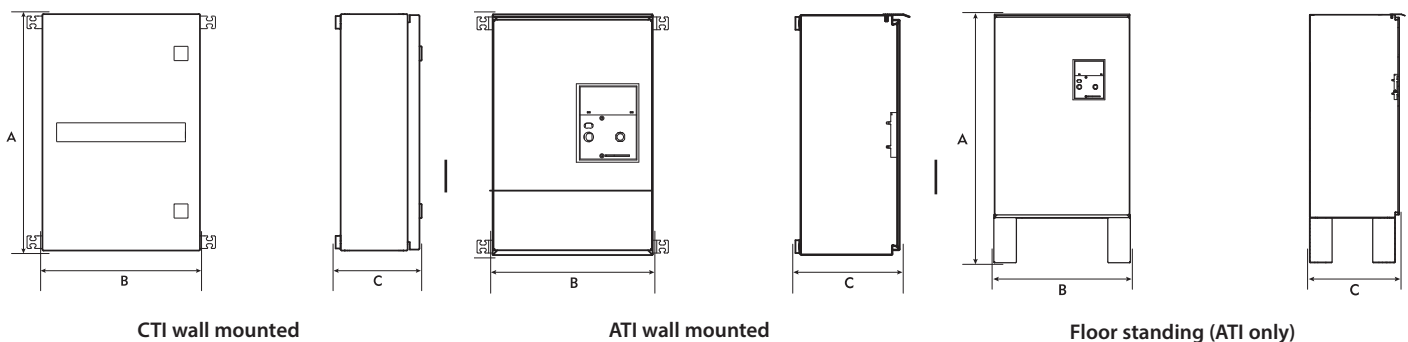


Load Transfer Panels

Model	Rating	ATI Transfer Dimensions			Weight
		A mm (in)	B mm (in)	C mm (in)	
CTI 63	63A	600 (23.6)	400 (15.7)	200 (7.9)	19 (41.8)
CTI 100	100A	600 (23.6)	400 (15.7)	200 (7.9)	19 (41.8)
CTI 125	125A	600 (23.6)	400 (15.7)	200 (7.9)	19 (41.8)
CTI 160	160A	600 (23.6)	400 (15.7)	200 (7.9)	19 (41.8)

Model	Rating	ATI Transfer Dimensions			Weight
		A mm (in)	B mm (in)	C mm (in)	
ATI 250	250A	500 (19.7)	600 (23.6)	300 (11.8)	39 (86.0)
ATI 400	400A	600 (23.6)	600 (23.6)	375 (14.7)	44 (97.0)
ATI 630*	630A	900 (35.4)	600 (23.6)	475 (18.7)	66 (145.5)
ATI 800*	800A	1100 (43.3)	775 (30.5)	650 (25.6)	125 (275.6)
ATI 1000*	1000A	1100 (43.3)	775 (30.5)	650 (25.6)	130 (286.6)
ATI 1250*	1250A	1400 (55.1)	1005 (39.6)	650 (25.6)	230 (507.1)
ATI 1600*	1600A	1600 (63.0)	1005 (39.6)	800 (31.5)	330 (727.7)
ATI 2000*	2000A	1899 (74.8)	1005 (39.6)	1007 (39.6)	400 (881.8)
ATI 2500*	2500A	1899 (74.8)	1005 (39.6)	1007 (39.6)	400 (881.8)
ATI 3200*	3200A	1899 (74.8)	1005 (39.6)	1007 (39.6)	400 (881.8)

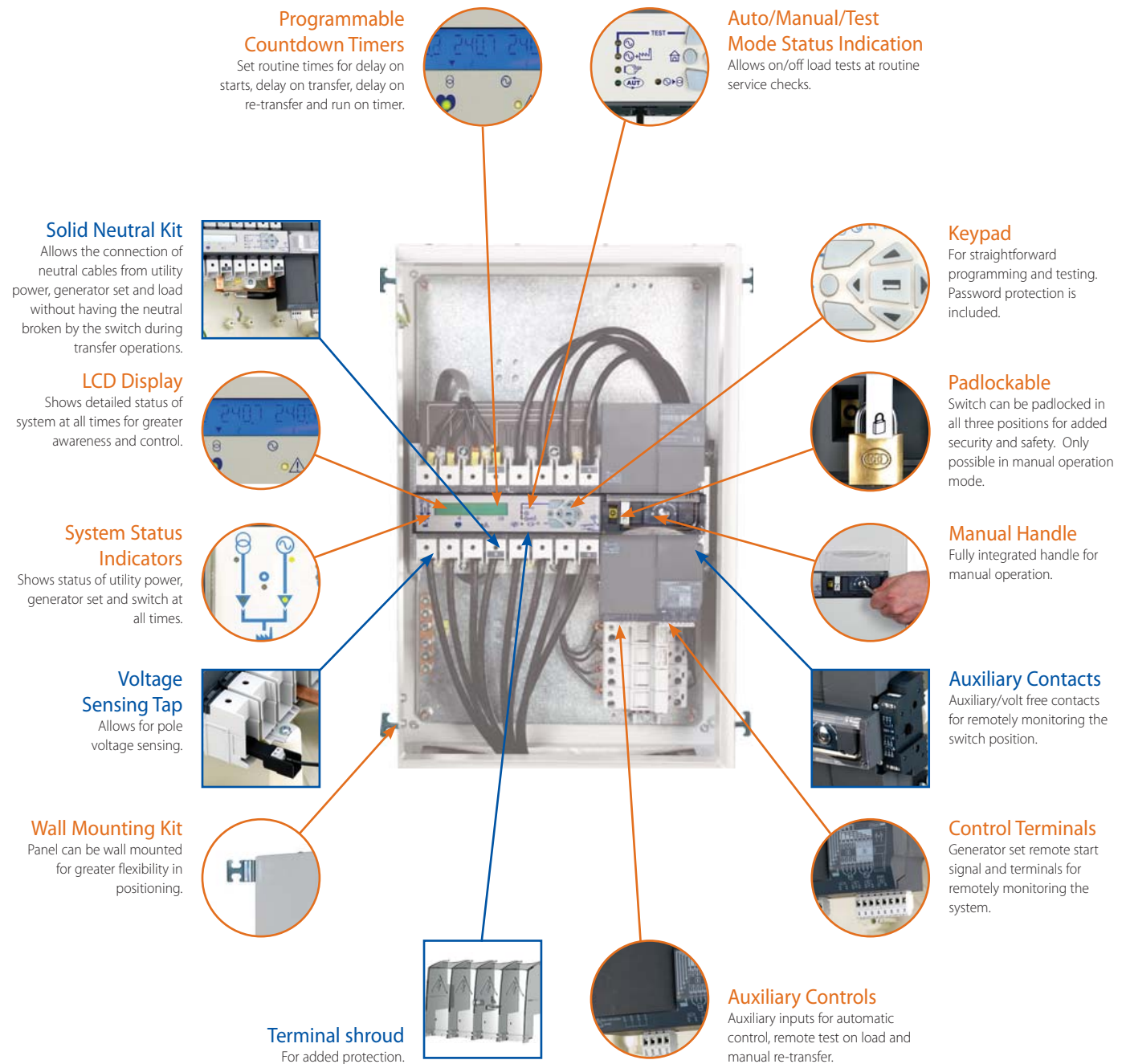
*Floor standing.



CTI Panel Features

CTI Load Transfer Panel – Ratings 63 – 160 Amps

Key: ○ – Standard Feature □ – Optional Feature



Top and Bottom Cable Entry

Aids ease of installation



Ingress Protection IP54

Protection for the control panel



Load Terminal Extensions

Improving ease of installation



Lightning Protection

Ensuring system safety



ATI Panel Features

ATI Load Transfer Panel – Ratings 250 – 1600 Amps

Key:  – Standard Feature  – Optional Feature

RS485 Communications Module

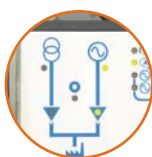
Enables access to the system remotely through telephone or PC via modem.

Volt Free Contacts

For power available and generator available.

System Status Indication

Shows status of utility power, generator set and switch at all times.



Auto/Manual/ Test Mode Status Indication

Allows on/off load tests at routine service checks.



Two Wire Start Signal

Simple two wire connection for automatic control.



Manual Handle

Fully integrated handle for manual operation.



Padlockable

Switch can be padlocked in all three positions for added security and safety.



Solid Neutral

Allows the connection of neutral cables from utility power, generator set and load without having the neutral broken by the switch during transfer operations.



Wall Mounting Kit

Panel can be wall mounted for greater flexibility in positioning (ATI 250 and 400).



Bottom Gland Plate

Removable gland plate providing increased accessibility with a sizeable area for utility power and generator set cables to be connected.



Auxiliary Contacts

Auxiliary / volt free contacts for remotely monitoring system; switch position, padlock and automatic or manual operation.



LCD Display

Shows detailed status of system at all times for greater awareness and control.



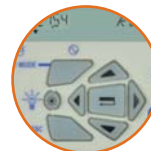
Power Metering

To measure load current, kW, kVAR, kVA, power factor.



Keypad

For straightforward programming and testing. Password protection is included.



Programmable Countdown Timers

Set routine times for delay on starts, delay on transfer, delay on re-transfer and run on timer.



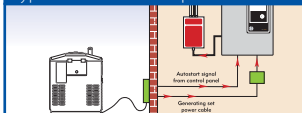
Lightning Protection

Ensures the safety of system during lightning storms (includes volt free contacts for utility power and generator set).



Installation

Typical installation set up



Wall Mounting Panels

Wall mount with ease – includes fittings



Ingress Protection IP54

Protection for the control panel



Top Cable Entry

Aids eased installation



ATI Panel Features

ATI Load Transfer Panel – Ratings 2000 – 3200 Amps

Key:  – Standard Feature  – Optional Feature

RS485 Communications Module

Enables access to the system remotely through telephone or PC via modem.



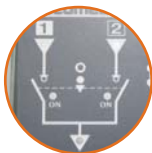
Volt Free Contacts

For power available and generator available.



System Status Indication

Shows status of utility power, generator set and switch at all times.



Two Wire Start Signal

Simple two wire connection for automatic control.



Manual Handle

Fully integrated handle for manual operation.



Padlockable

Switch can be padlocked in all three positions for added security and safety.



Auto/Manual/ Test Mode Status Indication

Allows on/off load tests at routine service checks.



LCD Display

Shows detailed status of system at all times for greater awareness and control.



Keypad

For straightforward programming and testing. Password protection is included.



Programmable Countdown Timers

Set routine times for delay on starts, delay on transfer, delay on re-transfer and run on timer.



Lightning Protection

Ensures the safety of system during lightning storms (includes volt free contacts for utility power and generator set).



Bottom Gland Plate

Removable gland plate providing increased accessibility with a sizeable area for utility power and generator set cables to be connected.



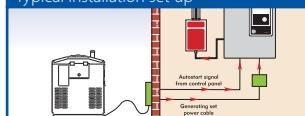
Auxiliary Contacts

Auxiliary / volt free contacts for remotely monitoring system; switch position, padlock and automatic or manual operation.



Installation

Typical installation set up



Ingress Protection IP54

Protection for the control panel



Features and Options

	CTI	ATI < 1600A	ATI > 2000A
Motorised Mechanically Held Switch			
Facility for manual changeover	●	●	●
Protection			
Utility power available	●	●	●
Utility power on load	●	●	●
Generator available / Generator on load	●	●	●
Utility power and generator off load	●	●	●
Manual mode / Automatic mode	●	●	●
Test on load / Test off load	●	●	●
Manual re-transfer for enabled / required	●	●	●
Power / Error indication (LED)	●	●	●
Facia			
Universal symbols to allow for multiple languages	●	●	●
Liquid Crystal Display			
Utility Power L1-2, L1-3, L2-3 voltage	●	●	●
Utility Power L1-N, L2-N, L3-N voltage	●	●	●
Generator Set L1-N, L2-N, L3-N voltage	●	●	●
Generator Set L1-2, L1-3, L2-3 voltage	●	●	●
Utility Power Frequency / Generator Set Frequency	●	●	●
Number of times switch transfers from mains to generator set	●	●	●
Timer settings	●	●	●
Standards			
Complete enclosure meets standard IEC 60947-6-1	●	●	●
Switch meets standard AC31B	●	●	●
Controls			
Under / Over frequency failure	●	●	●
Under / Over frequency restoration	●	●	●
Manual / Auto re-transfer	●	●	●
Mode select push button	●	●	●
Under / Over Volts Failure	●	●	●
Under / Over Volts Restoration	●	●	●
Delay on Start Timer	●	●	●
Delay on Transfer	●	●	●
Delay on Re-Transfer	●	●	●
Dead Band Timer	●	●	●
Run On Timer	●	●	●
Auto / Manual Control Keyswitch	●	●	●
Lamp Test Pushbutton	●	●	●
Padlock facility	●	●	●
Selection between Contactor or Switch Mode	●	–	–
Cable entry			
Top	●	–	–
Bottom	●	●	●
Load Terminal Extensions			
Improving ease of installation	○	–	–

	CTI	ATI < 1600A	ATI > 2000A
Auxiliary Contacts			
For monitoring of switch position (Including padlocking & auto / manual)	–	●	●
Lightning Protection			
Ensuring the safety of system during lightning storms	○	○	○
Ingress Protection IP54			
Protection for control module	○	○	●
Power Metering			
To measure load current, kW, kVA, Power factor	–	●	–
Volt Free Cotacts			
For utility power availability & generator available	●	○	○
Communication Module			
Plug in module that uses Jbus/modbus protocol to allow remote communication of the change over system	–	○	○
Voltage Sensing Tap			
Allowing for pole voltage sensing	○	–	–
Solid Neutral Kit			
To connect neutral cables from the mains, generator set and load	○	○	–
Terminal Shroud			
For added protection	○	–	–

Key: ● – Standard; ○ – Optional

Note: Options available depends on the exact configuration of the generator set package. Not all options are available on all packages. Please contact your local FG Wilson Dealer for more information