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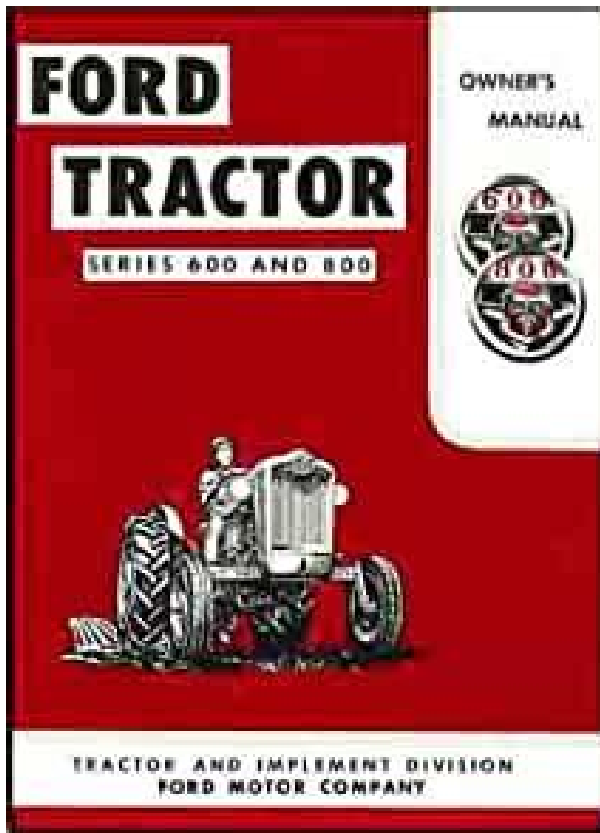
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Book Descriptions:

Cai 600 series manual



This analyzer is designed for use in a NONHAZARDOUS environment. This analyzer is designed for use with a HAZARDOUS sample. You have just purchased one of the most reliable gas analyzers in the world. Before using the analyzer, please familiarize yourself with its operation by reading this manual. If you have any questions, please do not hesitate to call California Analytical Instruments for assistance. These installation instructions are for a typical site. Any questions regarding specific installation situations should be directed to Technical Service of California Analytical Instruments, Inc. 3.2. The output voltages are connected per Table 8.1.1. Shielded wiring is recommended for output signals. 3.4. Analog Output Connections Appendix See Appendix for connector pinouts located on the analyzer rear panel. Remote range identification and range selection are obtained via the rear panel connections. Use filters as necessary. The final filter must be capable of removing particles larger than 4 microns. 3.8.2. Condensation Dew point of the sample gases must be lower than the instrument temperature to prevent accidental condensation within the instrument. Via the serial port of the MSRCARD, the analyzer can be remotecontrolled by a master computer. The serial communication fully corresponds to the specifications of the AK protocol. Check the access level. 5.1. The Main Menu Upon power up, the CAI logo is first displayed and then the main menu appears as below NOTE Access. If this sign is missing, the function starts immediately after the activation. NOTE NOTE Access level is 4. This section shows the access rights of the single levels. 6.1. User Functions Level 1 Main Menu F5Setup F5Password F1 Measurements F5 Password F1Enter password. Pressing F1 switches between measuring the sample gas for NOx or NO only. Continue pressing the arrow keys will recycle the analyzer back to auto range. As described in Section 7.1.3, F3 brings up the two diagnostics screens. <http://kokboken.se/media/diabloport-predator-user-manual.xml>

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Calibrations may be automatic or manual. Deviations can also be displayed. Calibration values can be reset to default values and the range to be calibrated can be changed. Main Menu User Level 4 Calibration Screen 7.4.1. When auto calibration has finished it is displayed. If the span value of the selected range is 0 see section 5.6.1, then it will not be calibrated. If one range is calibrated and the span value for the lower ranges is zero, calibration parameters will be copied to this range. If the screen is left by pressing the buttons "Main" or "Back", the measured value is not saved. Solenoids are closed by pressing F2. From the manual calibration menu, the range to calibrate can be chosen by pressing F3. Span gas concentrations, calibration settings, range limits, alarms, password, linearization, system and measure settings can be changed. The Setup menu begins as shown below. A description of each parameter is shown in the information box. For every range, the span gas concentration can be changed. After pressing F1 in the setup menu, a screen appears in which changes can be made. These two limits format a working window. In the setup menu the deviation is in percent. 7.5.2.3 F3 Deviations Here you can change absolute and relative deviation in percent. Up means the value when the next higher range is selected in auto range mode, down the value when the next lower range is selected. Change Auto Range Limits 7.5.4. If this is lost, you will need to consult the factory for the default password !! 7.5.5.3 F3 Reset Passwords The passwords can only be changed, if you are in access level 4. Reset passwords will revert back to the factory defaults. System Setup Screen 7.5.7.1 F1 Real Time Clock This brings up the clock time set screen, auto cal and auto cal enable screens. F2 brings up the auto cal time set. As above, the date and times can be set by using the cursor to highlight the entry and using the numeric keys to change the values. Status Line 7.5.7. <http://ecuadoratualcance.com/images/diablosport-manual.xml>

600
SERIES

CLD



USER'S MANUAL

Note: For Analyzers Sold After June, 2007 Please See Addendum Starting After Page 86 of This Manual

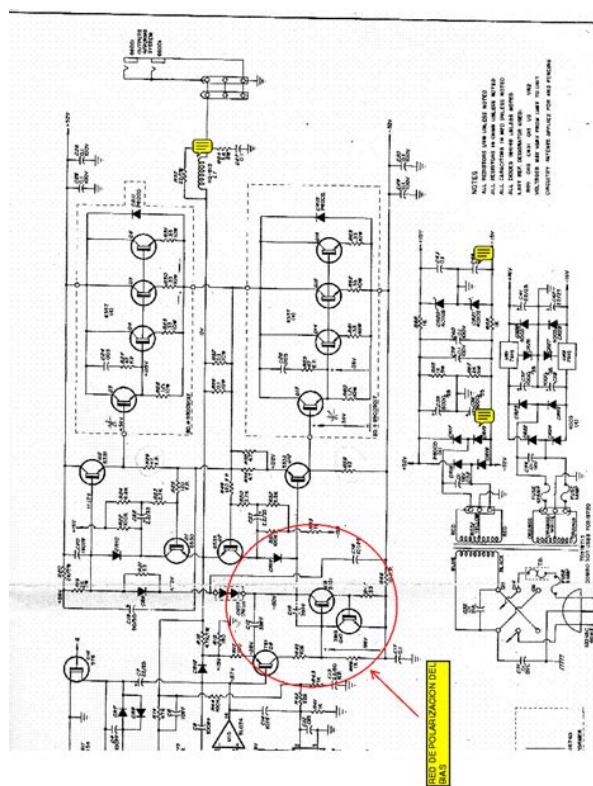


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6 F6 Language Select Language 7.5.7.7 F7 Automatic Setup This screen brings up the automatic startup parameters. If activated, the analyzer will automatically start up the autocalibration cycle upon power on. Menu Settings Screen 7.5.8.1 F1 Set NO₂ Mode Times Set NO₂ Purge and Measure Time 7.5.8.2 F2 Converter Efficiency F2 on the Menu Settings screen allows the NO to NO₂ converter efficiency to be set to the actual measured converter efficiency. This is very useful in eliminating noise when measuring low level concentrations. Set Time Constant 7.5.8.4 F4 Purge Time F4 on the Menu Settings screen the sets the purge time before continuing with. The CAI logo is displayed. Connection to a hub requires a straight cable. NOTE The internal ozone generator requires approximately 1 hour of continuous operation for the analyzer to achieve full zero and span calibration stability. 9.2. The sample pressure should read as indicated in the factory pressure settings screen. 8. Sample Pump If the analyzer is supplied with the optional internal sample pump, it is always on in the measure mode. Functional Description 10.1. Operating Principle The California Analytical Model 600 CLD Analyzer utilizes the chemiluminescent method of determination of oxides of nitrogen NO or NO_x in a sample gas. In the NO mode, the NO in the sample is quantitatively converted to NO₂ by gas phase oxidation with molecular ozone produced by the UV reaction of cylinder air. The CAI Model NO_xGen may be used for this procedure. A short test using NO₂ calibration gas is also defined in the U.S Federal Register, Title 40, Part 86.332.79 e. It is implemented as an RS232 V24 interface and meets all requirements of the AK protocol. Analyzer switches periodically between NO and NO_x mode and displays NO, NO₂, NO_x SFGR Reset calibration settings to factory default Converter on Command. Now a name up to 40 letters can be given. NOTE The device name must not have any blanks between, f.e. "CAI CLD" is not allowed.

All analog inputs are 0-10 VDC ONLY. Connecting analog outputs to existing current loop systems or voltage loop systems WILL DAMAGE the instrument. The Hardware includes the use of a new memory system, isolation of the analog output signals and 15 relays that are used to buffer the many new digital output signals that are now available. Press F3 to toggle to the Diagnostic screen for additional information Press F1 to save the new value and complete the SPAN calibration for this Range. Note The span gas value used for this range is highlighted and can be changed if necessary. If Zero is used the instrument will wait until all warnings are cleared to continue. Calibrations The number of attempts to complete a successful calibration as required in the operator defined

Deviation Tables. In the event of an unexpected power failure it may be desirable to change some parameters until an operator can resume control. This screen may be used to establish several desirable special instrument startup parameters that define how the analyzer recovers from loss of AC power. The OFFSET is the value stored during zero calibration. The GAIN is the value stored during span gas calibration using the operator defined calibration gas. With this version the outputs can also be configured to include an additional 1.0 volt and 5.0 volt output and a calibration capability. The instrument can be configured to provide either voltage or current signals. Note In the above example only Output 1 will be calibrated. Record the name of these signals, they will be restored. 3.4.3. Press enter to provide access to all the menu of signals that are available. Real Time. When NO or NOx are assigned to specific outputs. The CAL ANALOG output can be enabled by the operator and the MODE selected at the Measuring Screen will be impressed at the selected output. The above is shown using Zero Gas From Measurement use F5 or F6 From Main Menu use F4, F2, F1 or F2.



<http://www.diamondsinthemaking.com/content/3m-eapg-definitions-manual>

Note For instruments with an Internal Span Solenoid select Calibration by Valves. Main, F5, F2, F4 2 versions Span Gas will be enabled and the observed results can be used to evaluate instrument performance. The optional high level analyzer is factory configured with 4 Physical Ranges of 5, 50, 500, 500 The operator can change the number of ranges and select a more convenient full scale concentration if required. Press Enter to select Use this screen to define the signals and their location that will be monitored by a remote reordering device. This screen may be used to establish several desirable special instrument startup parameters that define how the analyzer recovers from loss of AC power. The GAIN is the value stored during span gas calibration using the operator defined calibration gas. This screen provides a section that is used to record the zero signal corrections zero offset and a second area to record the 100% signal corrections Gain for each of the four output signals that may be defined to develop a voltage or current signal. If "zero" no data is stored in the SEC data files. The SEC data files are in.CSV format for direct import into Excel. CAI can provide the tools necessary to download these files. TABLE B User DO Screen Index Service

Group Display Sample Pressure Failure SampleP Air Pressure Failure AirP Oven Temp Failure OvenT hld only Converter Temp Failure. If Cal Analog Output is set "On" then the values are not held, and the Real Time value is Output. The above is shown using Zero Gas From Measurement use F5 "Zero". MAIN, F5, F2, F2 Deviations, F3 Measuring Deviations Note These screens are used by the operator to define the maximum acceptable limits of the Zero and Span gas for both Manual and Automatic Calibrating. 4.3 Flow Zero or Span Some analyzers have the above and the ability to flow Zero and Span Gas. Get Started Login here In the NOx mode, the sample is routed through a converter.

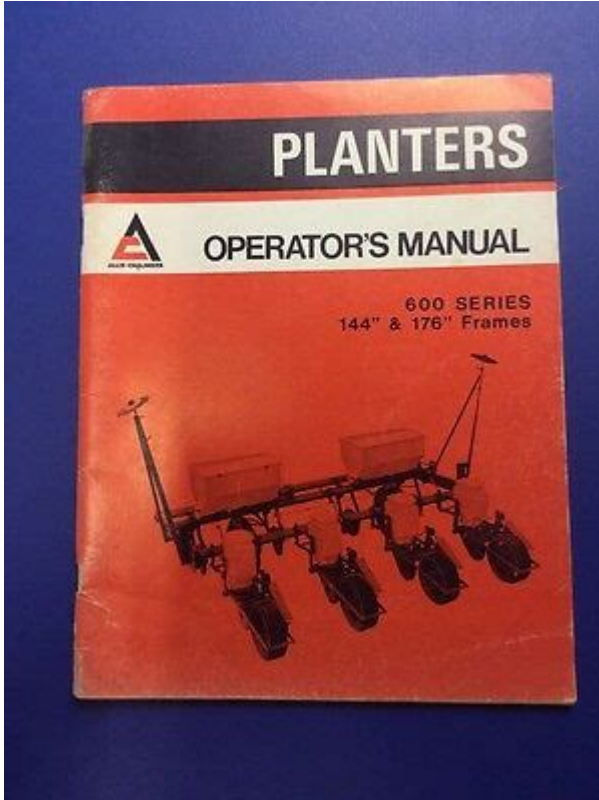
<http://fajarpengharapan.com/images/breadman-tr800-manual.pdf>



The resultant reaction is directly proportional to the total concentration of NOx. The reliability and rapid response time of CAI CLD analyzers make them particularly well suited for the following applications. The analyzer display includes screen. A single infrared light beam is modulated by a chopper system and passed through a sample cell of predetermined length containing the gas sample to be analyzed. As the beam passes through the cell, the sample gas absorbs some of its energy. Using a single infrared beam to measure gas concentrations, ZRE analyzers deliver highly stable and reliable results. The infrared light beam is modulated by a chopper system and passed through a sample cell of predetermined length that contains the gas sample to be analyzed. As the beam passes through the cell, the sample gas absorbs some of its energy. The attenuated. The 600P uses paramagnetic technology and the 600F uses a fuel cell method to determine the percentage level of oxygen contained in a gas sample. The proprietary heated sample cell allows the instrument to accommodate hot samples containing high levels of moisture. The 600 Series FTIR can simultaneously measure, display and output multiple gases to serve a variety of applications including diesel emissions, CEM monitoring, ammonia. The proprietary sample cell enables the instrument to accommodate hot samples containing high levels of moisture. The proprietary heated sample cell enables the instrument to accommodate hot samples containing high levels of moisture. A gaseous sample becomes ionized in the flame and the electrostatic field causes the charged particles to migrate. The migration creates a small current. This current is measured by the amplifier and is

directly proportional to the hydrocarbon concentration in the sample. The analyzers exhibit superior sensitivity and response time. The gaseous sample can be exhaust gases from an internal combustion engine, a combustion process or VOC abatement systems.

<http://familymn.com/images/breadman-tr800-instruction-manual.pdf>



The analyzers exhibit superior sensitivity and response time. The gaseous sample can be exhaust gases from an internal combustion engine, a combustion process or VOC abatement systems. The instrument can measure THC in the ppm or percent levels. All internal components are maintained at. The analyzers exhibit superior sensitivity and response time. The gaseous sample can be exhaust gases from an internal combustion engine, a combustion process or VOC abatement systems. The instrument can measure THC or CH₄ in the ppm or percent levels. All internal. A UV lamp emits ultraviolet radiation that passes through a filter which excites the SO₂ molecules and produce slight which is measured by a photomultiplier tube PMT. The analyzer display includes screen presentation of all analyzer alarms. Four levels of password protection are provided. This is particularly important with instrumentation which, in addition to zero calibration air, requires pure air for burner combustion. All components in contact with the sample are maintained at the set oven temperature preventing condensation. Dry air is mixed with the sample to the required dilution ratio insuring no condensate will be introduced into the analyzer. Savings in master gas cylinders and automatic operation will provide a cost effective solution to large inventories of cylinders. The internal microprocessor offers different levels of access with code protected user levels to protect from unauthorized changes of internal parameters. The internal gas list is used to store various gases and user. The system has been developed over many years as higher specifications components have been added to the proven single board computers on the Mark 1 and Mark 2 Samplers. These have been in production for over 15 years. CAI specialize in custom building these systems and are able to modify and write special. The analyzer system is housed in a Nema 4 enclosure with a front lockable door.

The enclosure contains a heating and cooling system to maintain a constant internal temperature for the gas analyzer and interface equipment regardless of outside environmental. Gases Available are CO, CO₂, O₂, NO_x, HC. Utilizes Infrared, Chemiluminescent, FID and Paramagnetic Technologies. Sample Conditioning System Provides Clean, Dry Sample Gas Stream to Analyzers. Sample Probe With Heated Filter and Blowback. Withstands Sample Temperatures of up to 600 degrees F. Optional CO₂ channel, water removal system, and sample pump are. The complete system is contained in a single bay, roll around cabinet that may be moved to various test sites as required. This system will allow direct measurement of carbon monoxide, carbon dioxide, oxygen, total hydrocarbons and oxides of nitrogen using proven research grade gas analyzers. All analyzers are Federal Register compliant,. The gas molecules absorb some of the light energy and convert it into an acoustic signal which is detected by a microphone. Two versions of the analyzer are offered, the Model 1412 which is configured for bench top operation and the Model 1314 which is configured for rack mounted operation. The measurement system is based on photoacoustic Infrared detection and provides the capability of measuring virtually any gas that absorbs in the infrared spectrum. Gas selectivity is achieved through the. Change File Login here. Infrared Analyzers use technology based on the absorption characteristics of different gases to measure concentration. A single beam of infrared energy is modulated and passed through a sample cell containing the measured gas; then emerges attenuated by amount of energy absorbed by the gas in the sample.

<https://mission4recruitment.com/wp-content/plugins/formcraft/file-upload/server/content/files/1626f12acc3e3b--bosch-sgv43a03gb-manual.pdf>

Infrared Analyzers Highlights MultiComponent up to 4 IR Channels Plus O₂ Measures from Low ppm to 100% Full Scale Patented MicroFlow Detector No Routine Maintenance Temperature and Pressure Compensation For precision measurements, the analyzers accuracy is increased by entering calibration curve fit polynomials. Automatic calibration may be activated locally or remotely and includes auto calibration via preset times. More Information A single infrared light beam is modulated by a chopper system and passed through a sample cell of predetermined length containing the gas sample to be analyzed. The attenuated beam transmittance emerges from the cell and is introduced to the front chamber of a two-chamber infrared microflow detector. The detector is filled with the gas component of interest and consequently the beam experiences further energy absorption. This absorption process increases the pressure in both of the chambers. The differential pressure between the front and rear chambers of the detector causes a slight gas flow between the two chambers. This flow is detected by a massflow sensor and is converted into an output signal. CAI's goal is to provide innovative, cost effective and reliable solutions. CAI utilizes technologies such as Chemiluminescence, NonDispersive Infrared NDIR, Flame Ionization Detection FID, Paramagnetic, FTIR, and Photoacoustic Infrared Spectroscopy PAS for measurement of CO, CO₂, NO, NO₂, N₂O, NH₃, O₂, CH₄, SO₂, SF₆, and HCL gases. CAI products include Infrared Analyzers; Chemiluminescence Analyzers, Oxygen Analyzers, Flame Ionization Analyzers, UV Fluorescence Analyzers, FTIR, Integrated Systems, Specialty Products, Photoacoustic IR Analyzers. Any trap can be customized for special stack conditions. We look forward to continued business with you in the future. Continue the great work at your establishment. Follow these simple steps to safely change your CACI gloves. Follow these simple steps to safely change your CACI sleeves.

accofire.com/ckfinder/userfiles/files/comdial-dx-80-installation-and-maintenance-manual.pdf

Watch this video to safely and easily change your sleeves. This documentation must include personnel responsible for assessing the spill size and scope. The 16 bit microprocessor control board consists of the MSRCard with 16 digital inputs, 16 digital outputs, 16 analog inputs and 4 analog outputs. The analyzer display includes screen presentation of all analyzer alarms. Four levels of password protection are provided. For precision measurements, the analyzers accuracy is increased by entering calibration curve fit polynomials. Automatic calibration may be activated locally or

remotely and includes auto cal via preset times. Larger ratios available upon request. A wide range of HP ratings up to 200HP, reduction ratios up to 658,5031, and dozens of application and industry specific modifications, ensure your operation avoids unexpected downtime. This allows you to downsize when selecting a Cyclo, while still maintaining the same ratings and service factors you are accustomed to with conventional gear reducers. Subsequently, this allows us to utilize grease lubrication in an effort to provide you with a nearly maintenance free solution. Grease lubrication comes standard in sizes 6060 to 6125, and is optional in sizes 6130 and above. This allows for a compact offering, saving you money and space, as well as a efficiency gains compared to multistage reducers. The smooth rolling contact that prevents tooth breakage results in a durable gearbox with a long service life. Some low reduction ratio models use helical gears and planetary gears. Below are some of our most commonly asked questions or you can view our Support area under Knowledge for more frequently asked questions and answers. The selection tables in our catalog are based on 1750, 1165, 870, 580, and 50 RPM. When nonstandard input speeds are used, the kilowatt or horsepower and torque ratings also vary.

Since the Cyclo gearing has twothirds of its reduction components in contact at all time, it can withstand higher shock loads and is more stable than traditional involute gearing. This information will be important in determining your applications service factor. Many Cyclo models can accept input speeds of up to 3,600 RPM. However, the maximum allowable input speed is dependent upon the model number and the reduction ratio. Refer to the maintenance manual for mounting bolt specifications. All torquetransmitting parts roll, not grind. Unlike the normal involute teeth with limited contact points, a Cyclo has twothirds of its reduction components in contact at all times. The Service Factor value depends on the load characteristics and operation time for the customer's application. However, when the Cyclo uses special grease for high or low ambient temperature and grease fittings are installed, then grease replenishment and grease changes are required according to the appropriate factory schedule. There are three AGMA load classifications for reducers uniform U, moderate shock M and heavy shock H, and three AGMA load classifications for gearmotors I, II, and III. Refer to our catalog for a list of AGMA load classifications. These Service Factors are used in the product selection process to adjust for the specific conditions and operating requirements of your application. For emergency repairs, we offer repair services 24 hours a day, 7 days a week. Our intuitive filters help you find the product that best suits your application. This radio is designed to support the needs of the most demanding airborne missions including federal law enforcement, homeland security, and paramilitary operations. Two separate VHF RF modules each capable of transmitting with 10 watts high or 1 watt low of RF output power will allow independent operation from each other.

One module supports conventional operation with front panel programming and the second module supports VHF Trunking operation. The unit is APCO Project 25 compatible in both conventional and trunking modes. P25 9600, SMARTNET and SmartZone trunking protocols are all supported. The TDFM636 must be initially programmed with a laptop utilizing new Motorola Windowsbased Customer Programming Software CPS software ensuring total compatibility with existing groundbased land mobile infrastructure. This page requires Javascript. Modify your browsers settings to allow Javascript to execute. See your browsers documentation for specific instructions. Click here Technical data is gathered for the products supported by this tool and is used to identify products, provide relevant solutions and automatically update this tool, to improve our products, solutions, services, and your experience as our customer. This tool will detect HP PCs and HP printers. We will offer drivers and other solutions in this OS first. If you wish to see solutions related to another OS, please select the preferred operating system and version and choose Change Technical data is gathered for the products supported by this tool and is used to identify products, provide relevant solutions and automatically update this tool, to improve our products, solutions, services, and your experience as our customer. This tool will detect HP PCs and HP printers. This

could take up to 3 minutes, depending on your computer and connection speed. Thank you for your patience. Please select the desired operating system and select "Update" to try again. Drivers may be in development so please check back at a later date or visit the product homepage. Give it a try on your PC! First, install HP Support Solution Framework. Please try again later. Please try again Here are the drivers available for your system. We apologize for this inconvenience and are addressing the issue. Please try again shortly.

Using superior internal antennas for both cellular and GPS, CalAmp's vehicle tracking devices are easy to install, economically priced while providing reliable vehicle tracking performance and a dependable communication link between the vehicle tracking device and your application servers. Abstract As rates of multidrugresistant MDR pathogens continue to rise, outpacing the development of new antimicrobials, novel approaches to treatment of MDR bacteria are increasingly becoming a necessity. One such approach is combination therapy, in which two or more antibiotics are used together to treat an infection against which one or both of the drugs may be ineffective alone. When two drugs, in combination, exert a greater than additive effect, they are considered synergistic. In vitro investigation of synergistic activity is an important first step in evaluating the possible efficacy of drug combinations. Two main in vitro synergy testing methods have been developed the checkerboard array and the timekill study. In this paper, we present an automated checkerboard array method that makes use of inkjet printing technology to increase the efficiency and accuracy of this technique, as well as a standard manual timekill synergy method. The automated checkerboard array can serve as a highthroughput screening assay, while the manual timekill study provides additional, complementary data on synergistic activity and killing. The checkerboard array is a modification of standard minimum inhibitory concentration MIC testing, in which bacteria are incubated with antibiotics at different concentration combinations and evaluated for growth inhibition after overnight incubation. Manual performance of the checkerboard array requires a laborious and errorprone series of calculations and dilutions. In the automated method presented here, the calculation and dispensing of required antibiotic stock solution volumes are automated through the use of inkjet printer technology.

In the timekill synergy assay, bacteria are incubated with the antibiotics of interest, both together and individually, and sampled at intervals over the course of 24 hours for quantitative culture. The results can determine whether a combination is synergistic and whether it is bactericidal, and provide data on inhibition and killing of bacteria over time. Keywords Antimicrobial synergy, antibiotic synergy, synergy, antimicrobial resistance, colistin resistance, carbapenemresistant Enterobacteriaceae, timekill synergy, checkerboard array, automation, inkjet printing SUMMARY Antimicrobial synergy testing is used to evaluate the effect of two or more antibiotics used in combination and is typically performed by one of two methods the checkerboard array or the timekill assay. Here we present an automated, inkjet printerassisted checkerboard array synergy technique and a classic timekill synergy study. INTRODUCTION The spread of multidrugresistant MDR bacterial pathogens, particularly MDR Gramnegative bacteria such as carbapenemresistant Enterobacteriaceae CRE, has left clinicians with increasingly limited options for successful antiinfective therapy 1, a problem exacerbated by the sluggish pace of novel antibacterial drug discovery 2, 3. Antimicrobial synergy, in which two drugs used in combination exert a greaterthanadditive effect, offers the possibility of salvaging existing antibiotics for use in treatment of MDR bacteria, even when these bacteria are resistant to one or both of the antibiotics individually. The techniques described in this paper provide two complementary methods of in vitro synergy testing that, when used together, allow investigators to efficiently screen antimicrobial combinations of interest for evidence of synergistic activity the automated checkerboard array method and then to further evaluate the kinetics of inhibition and killing demonstrated by promising combinations identified in the screening stage the manual timekill method.

One of the most commonly used methods of in vitro synergy testing is the checkerboard array assay, a modification of minimum inhibitory concentration MIC testing in which the inhibitory activity of two different antibiotics against a bacterial isolate are tested over a range of concentration combinations 4, 5. If the two drugs exert greater than additive activity when used together, the combination is considered synergistic 6. However, setting up a checkerboard array manually involves a series of calculations and diluting and pipetting steps that are laborious and vulnerable to human error. Furthermore, the complexity of synergy testing has contributed to its unavailability in the clinical microbiology laboratory and to the virtual absence of in vitro synergy testing data from clinical studies of combination therapy 12, 13. In order to increase the efficiency and throughput of the checkerboard array method, we made use of an automated MIC testing technique previously developed in our laboratory which uses inkjet printing technology to precisely and consistently dispense small volumes of antibiotic stock solution into wells in a microtiter plate 14. The platform obviates the need for complex calculations and multiple pipetting steps. The associated software calculates and dispenses appropriate volumes of antibiotics to create a twodimensional checkerboard array if the user simply inputs the desired concentration range and stock solution concentration of the antibiotics. We initially tested this method against a collection of CRE isolates 15 and subsequently have focused on testing colistincontaining combinations for activity against colistinresistant isolates 16.

<https://www.informaquiz.it/petrigenis1604790/status/flotaganis20032022-1607>