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- **8163a manual, agilent 8163a manual, 1.0, 8163a manual, agilent 8163a manual.**

How to Set the Wavelength Sweep How to Perform a Sweep How to Modulate a Signal How to Use the Internal Modulation How to Use External Modulation How to Configure the Modulation Output How to Use Triggers How to Use Input Triggering How to Use Output Triggering How to Use Auxiliary Functions Automatic Realignment How to Perform a Lambda Zero Auto Cal Off Compact Tunable Lasers Compact Tunable Laser modules How to Use a compact Tunable Laser The User Interface SBS Suppression Return Loss Measurement Getting Started With Return Loss What is Return Loss. What is Insertion Loss. How to Set Up PACT How to Measure the Reference How to Perform a Loss Measurement Analysing a PACT Measurement OnScreen Messages The Pmax Curve What is the Pmax Curve. What do I need for proper cleaning.http://praguetransfer.com/files/calentador-kruger-2212-manual.xml

Light dirt Heavy dirt How to clean connectors Preferred Procedure Procedure for Stubborn Dirt An Alternative Procedure How to clean connector adapters Preferred Procedure Procedure for Stubborn Dirt How to clean connector interfaces Preferred Procedure Procedure for Stubborn Dirt How to clean bare fiber adapters Preferred Procedure Procedure for Stubborn Dirt How to clean lenses Preferred Procedure Procedure for Stubborn Dirt How to clean instruments with a fixed connector interface How to clean instruments with an optical glass plate How to clean instruments with a physical contact interface Preferred Procedure Procedure for Stubborn Dirt How to clean instruments with a recessed lens interface Preferred Procedure Procedure for Stubborn Dirt How to clean optical devices which are sensitive to mechanical stress and pressure Preferred Procedure Procedure for Stubborn Dirt Alternative Procedure How to clean metal filters or attenuator gratings Preferred Procedure Procedure for Stubborn Dirt Additional Cleaning Information How to clean bare

fiber ends How to clean large area lenses and mirrors Preferred Procedure Procedure for Stubborn Dirt Alternative Procedure A Alternative Procedure B Other Cleaning Hints Making the connection Lens cleaning papers Immersion oil and other index matching compounds Cleaning the housing and the mainframe Firmware Upgrades Firmware Upgrade Process How to Get a Firmware Upgrade How to Upgrade Firmware Index No p art of th is do cume nt m ay re prod uc ed in in clu d ing el ec tr oni c stor ag e and retrieva l or trans lation i nto a fore ign language without p rior agre ement and written con sen t from Agil ent Tech nologies Gm bH as g over ned by Un ited S t ates an d int erna t io nal c op y wr ight la ws. Ag ilent Te chno logi es Deu tsc hl and G mbH Herr en berger Str.

13 0 71034 B ob ling en Germa ny Manual Part Number 08164 90B15 Ed it ion Six th edi t ion, Dece mbe r 200 4 Fi th e d iti o n, July 20 0 3 Fo urth e d iti on, Feb rua ry 2002 Th ir d edi t ion, Oc to be r 20 01 Seco nd ed iti on,Sept em ber 20 01 First edi tio n, Au gust 200 1 W a rrant y Th is A gil en t T ec hno l ogie s i nst rum en t pro duc t is wa rra nte d ag ain st d ef ect s in mater ia l an d wo rkma nshi p for a perio d of on e year from dat e of s hipme nt. Duri ng t he wa rrant y pe ri od, Agile nt wi ll, at it s op ti on, ei th er rep a ir or repl ace pr od ucts that prove to be defec t ive. Fo r war ra nty s erv ic e or re pa ir, th is pro du ct m ust b e re tu rne d to a s erv ic e fa ci lit y de s i gna t e d by A gi le nt. Bu ye r shal l pr epay s hippi ng char ges t o Agi lent and Agi lent shall pa y shi pping char ges to re tur n th e prod uct to Bu yer. Ho wever, Buyer shal l pay all s hippi ng cha rges, du ties, a nd taxe s for pro duct s retu rne d to Ag ilen t fr om ano the r co untr y. Agil ent war ran ts t hat i ts so ft war e an d fir mwar e desi gnat ed by Agile nt fo r use with an instru ment wi ll execute its pro gramm ing in stru cti ons whe n prop erl y ins talle d on tha t in st rume n t. Agil ent do es n o t wa rran t that th e oper a tio n of the in s tr ument, so f twa re, or f ir mware w ill be uni nter ru pte d or erro r f re e. Limitation of W a rranty The fo r egoin g war rant y sha ll not a pply to defects resu lting from improp er or inad e qua te main te na nce by Buy e r, Buyersupplied software or int erfaci ng, unaut hori zed mod ificati on or misu se, op era ti on out sid e o f th e en viro n m ent al spec if icat ion s f or the p rodu ct, or impr oper si te pre parati on or main te nan ce. No ot her warr a nty is expr essed or im plie d. Agi le nt T ech n olog ies spec if ic ally d isc laim s the im plie d war ran tie s o f M er cha nt ab il ity an d Fi tn ess fo r a P a rt ic ula r P u rpo s e.

http://www.drupalitalia.org/node/78183

Ex clu si ve R em ed i es The re medie s pro vided he rein are Buy er s sole a nd excl usive re medies. Agile nt T ec hnolo gie s sha ll no t be l iable for any direc t, indi rect, speci al, inc idental, or cons equenti al dama ges wh et he r ba se d on con t ra c t, t o rt, or a ny other l egal t heory. Assis tance Pro du c t ma intenan ce agr eement s and other customer assistance agre ements are avail ab le f or Agil ent T ec hno log ies produ cts. F or an y assi stanc e cont act yo ur nea re st Ag il en t T ec h no log ie s Sal es and Serv i ce Off ice. Certi fica tion Agil en t T ec h no logie s In c. ce rt ifie s that thi s pro duct met it s publish ed spec if icat ion s a t t he ti me of s hip m ent fro m th e fa ct ory. Agil en t T e ch no log i es furt he r cer tif ie s that its ca li brat ion m easu re men ts a re tr aceabl e to t he Uni ted S tates Nati onal Ins t it ute of St a ndar ds and T ec hnolo gy, NIST former ly the Unit ed States N a ti o na l B ur e a u of S ta n d ar d s, N B S t o th e ex t en t a ll o we d by t he I n stit ut es ’s ca libr at ion f ac ility, a nd t o th e ca libr at ion facili ti es o f othe r Inte rnatio nal Standa rds Organ izatio n mem bers. ISO 9001 Cert ification Prod uce d to IS O 90 01 inte rnat ional qual ity system standard a s part o f our ob ject iv e of con ti n ua lly inc re as in g cust omer satisfac ti on thro ugh improv ed process con trol. Safet y No tices CAUTION A CAUTION notic e d enote s a haza rd. It ca lls att e ntion to an operatin g procedur e, practic e, or th e like th at, if not co r rectly per formed or a dhered to, could r e sult in da m ag e to th e p rod uc t o r lo ss o f impo rt ant data. Do not proc eed be yond a C AUTION not ice u ntil the indic a ted con d itions are f ully under s t ood and met. WA R N I N G A W A RNING notice de notes a haza rd.

https://gpwestlondon.com/images/botany-lab-manual-answers.pdf

It ca lls att e ntion to an operatin g procedur e, practic e, or th e like th at, if not co r rectly per formed or a dhered to, could r e sult in pe rs onal in jur y or deat h. D o no t proc eed beyo nd a WAR NING noti ce until th e indicated conditions are f ully understood and me t. Ag ilent T ec hnolog ies Inc.Th is pr odu ct ha s bee n des igne d and te sted in acc ord ance with IEC Pu blicati on 6101 01, Sa fety Req uirem ents f or Elec trical Equipm ent fo r Me asu rem ent, Co ntrol a n d Labo rato ry. Us e, an d has been supp lied in a sa fe condi tio n. The instruct ion doc um entat ion c ontain s info rmation a nd wa rnings that mus t be f ollow ed by the user to ensu re sa fe ope rat ion an d to m ain t ain t he p rod uct in a saf e co nd ition. Sa fety Symb ols The cau tio n si gn denotes a ha zard. It ca lls att ention to a procedur e which, if not corre ctly perform ed or adhered to, could result in damage to or destructi on of the product. Do not procee d beyond a caution si gn until the i ndicated c onditi ons are fully understood and met. CAUTION The war nin g sign denotes a ha zard. It calls attention to a procedure which, if not correctly perf ormed or adhered to, could result in injury or loss of life. Do not proceed beyond a warning sign until the ind icated condition s are fully understood and met.T o di sconn ect fr om the lin e powe r, disc on nec t the p ower co rd eithe r at the rear power i nlet o r a t the AC li ne powe r sou rc e r ecept acl e. One of the se mu st a lwa ys be a ccess ibl e. If the ins trum ent is in a c abin et, it m ust b e di sconn ecte d fro m th e lin e powe r by t he sy ste m' s li ne pow er s witch. Operating E n viron me nt T o avoid hazardous electrical shock, do not p erform electrical test s when t here are si gns of shipping d amage to any por tion of the outer enclosure covers, panels, and so on. T o prevent potential fire or shoc k hazard, do not e xpose the instrument to ra in or other excessive moisture.

T h e s e a r e T T L in p u t s. A m a x i m um o f 5 V c a n b e a p p l i e d as an external v oltage to either of th ese input c onnectors. There is one outpu t BN C connector the T rigger Output, se e " Inpu t and Outp ut Connecto rs " on pag e 310. This is a TTL out put. Do not apply an ext ernal v o ltage to thi s c onnec tor. CAUTION The typ e of po wer cable shipped w ith each inst rum ent depend s o n the countr y of desti nation. Ple ase r efer to " Acc esso ries" on pag e 319 for the p art num bers of availa bl e power cab les. Operating p ersonnel must not remove instrument covers. Do not operate the instrument in the pre sence of flamma b le gases or fumes. Operation of any e lectrica l instrum ent in such an environment constitutes a de finite sa fety hazard.This warning symbol is marked on p roduc ts which have a lase r output. The A C s ymb ol is use d to indi cate the requ ired n atu re of t he l ine mo dule input pow er. The ON sym b ols a re used to m ark t he pos itio ns o f the i nstru men t powe r line sw it c h. The OF F sym b ols are used to m ark t he pos itions o f the i nstru ment powe r line sw it c h. The C E ma rk is a r eg ister ed tr ade mark of the Europe an C om mun ity. The C SA ma rk is a regist ered trade mark of the Can adia n Stan dard s Association. The C T i ck m ark i s a re giste red t radem ark of t he Au st ralia n Sp ectrum Manag ement Agen cy. Thi s te xt d enot e s th e in stru me nt i s an Ind ustr i al Sc ient ific an d Medic a l Group 1 Class A product. Frame or chassis terminal. Protec tive cond uctor T erm inal Cau tion, ri sk of elec tric s hock. Mag netic fi elds may inte rfer e w ith a pacem aker Cau tion, hot su rface ISM 1A ISM 1A C W ou tp ut p owe r is defin e d as the high est possibl e optical power that the laser so urce ca n pro duce a t it s outp ut connect or.. CW out put p o wer is def ined as the h ighes t possi ble o ptica l power that t he l aser s our ce ca n produ ce at i ts out put connec tor.

Table 5 Bac k l oadable Tu nabl e Laser Modules dis c ont inued La s er Sa fety Inf ormatio n Agil ent 814 80 B Ag ilent 81 482 B A gi lent 8 168 0B Agil ent 81682 B Agi len t 81640 B A gile nt 81 642 B A gi len t 8167 2B La ser T ype FPLa se r InG a AsP FP Las er InGaAs P FP La s e r InGa As P FPLa se r In Ga As P FPLa se r In Ga A sP FP Las er InGaAs P FP La s e r InGa As P W a vele ngth range 1370 1 495 n m 1370 1495 n m 1460 158 0 nm 146 015 80 nm 14 951 640 n m 1495 164 0 n m 1 260 13 75 nm Max. C W ou t put po w er is def i ned a s the highes t possible o ptical po w er th at the las er sour ce can produ ce at its outp ut conne ctor. CW o ut put pow er is defined a s the h ighest p

ossible op tical power th at the l aser source ca n produ ce a t its outp ut conn ector. Ta ble 7 C omp act T una ble Lase r Mod ules d is c o nti nue d La ser S afe ty Inf orma tio n Agile nt 81689A Ag ile nt 81 68 9B A gilen t 816 49 A Lase r T y pe FP La se r In Ga As P FP La s e r InGa AsP FPLa se r InG a AsP Wav el e n g th ra n ge 140016 20 nm 1400 1620 nm 14 001 620 nm Max.CW o ut put pow er is defined a s the h ighest p ossible op tical power th at the l aser source ca n produ ce a t its outp ut conn ector. Int roducin g Hardk eys A har dke y is a ke y that alwa ys has t he sa me fun ctio n. Spe cial Module States Besides parameter or m easurement values, you may also see some texts in stead. Slot a nd Channe l Numbers Each m o d ule is id entifie d by a sl ot number and a c hannel n umber.Mod ule s with two ch annel s, for ex ampl e, the Ag ilent 8163 5A Dual Power Senso r, u se t he c hannel numbe r to distingu ish between t hese ch a nn els. The c hannel n umber o f singl e channe l modul es is al wa ys o ne. NOTE It shows the most important parameters of all installed modules The disp lay of th e Agi lent 816 3A and th e Agilen t 8166A is black an d whit e only. NOTE T u rning the Mo di f y Knob anti clock wise moves t he highl ighte d mark er left an d th en up.

Y ou c an us e th e M od if y K no b t o c ha nge t he va lu e o f a pa ram et er. Se e " How to Change th e V a lue of a Parame ter " o n pag e 53. How to Chang e Channel Y ou can navig a te betwee n modu le cha nnels by pres sing t he Ch annel ha rdkey. Y o u shoul d see t he Deta ils s c r een as s hown in F igure 13, F igure 14, o r Figure 1 5. Fi gure 13 Th e Agile nt 816 3B ' s D etails Screen f or a Power Sens or Channel See " Additi onal Informa t io n" on pa ge 63 for m ore de ta ils.Cros sre fere nce s with in the text al low y ou to ac ce ss rele vant topics. Crossr eferences are unde rlined. If a cross referenc e is hi ghlighte d, it is sele ct ed. See " Ap plic ation s" on pag e 2 29 for f urth er de tails. Fi gur e 22 T he A p plic ation s Me nu NOTE Aft er yo u ex it fro m t he a pplicat io n, any mo dules s ele cted b y th ese a ppl icatio ns w ill aut oma tical ly be pr ese t, all par am ete rs will be set to the ir de fau lt value s f or the selec ted mo dules. NOTE All refere nce s to pre ssing Ent er throug hout t his User ' s Gui de, refe r to o ne of t hese thr ee acti o ns.Figure 23 The Firs t Digit Befo re the D ecimal P o in t is High lighted Firs t 2 If you want to s elect a no ther d igi t to edit, u se th e le ft or rig ht cur sor ke y. 3 E nter the new val ue for the digit by usin g the numer ical keypad, the up and down curs ors or turni ng t he m odif y kno b. 4 Repe at step s 2 a nd 3 to co ntin ue e diti ng t he v alue. 5 When you ha v e fi nished editi ng the value, press Enter. The mo st s ig ni fica n t dig it is hi ghl ight ed. 2 Pre ss the lef t curs or onc e to hi ghli ght t he digi t f o u r. 3 Pre ss t he d own c ursor t wice to c ha n ge the value of t he digi t to t wo. 4 Press th e right cu rs or o nce to mov e th e cur sor on e di git r igh t. Power Sen so r TLS Y ou sh ould not ice t hat th e powe r r eadin g is ap pro xima tely ha lf th e val ue set on the T u nable Lase r modu le.

This is becau se the ou tput is modu late d by a s quare wave with a 50 % dut y cycl e. Y o u s ee a bo x d is p l ay i n g the c urr e nt se tti ng. Fig ure 28 En teri ng a Ba ckl igh t V al ue 3 E n t e r a n i n t e g e r v a l u e b e t w e e n z e r o a n d o n e h u n d r e d i n t h i s b o x a n d p r e s s Enter.Y o u se e a b o x, si m i l a r to Figu re 2 9, disp layi ng th e cu rren t date and ti me s ett in gs. The Contrast can al so be se t for th e Agilent 8 163A a nd the 81 66A mod els, but only th ese mode ls, a s fo llow s NOTE P ress Enter. 5 Perfor m s teps 3 to 4 a gain i f t he dat e is not full y cor rec t. 6 Use t he cur sor ke y to move to the Ti me f ield. The h our of the day is hi ghlig hted. The 24hour clo ck is used. 7 Us e the left and rig ht curso r k eys to move t o the hour, mi nute, or s e cond.Fi gu re 30 U n lo c k ing th e I ns tu m en t 3 E n t e r t h e p a s s w o r d, u s i n g t h e s o f t k e y s o r t h e n u m e r i c a l k e y p a d.Y ou se e a b ox di splay ing the avai labl e tri ggerin g modes. Fi gur e 31 C han gi ng th e Tri gg erin g M ode 3 Move to your cho sen t rigge ring mo de and press Enter. Th is func tion ality requ ires FPGA vers ion 1.5 or hig her. The FP GA v ersio n number and date i s dis played aft er yo u boot up the i nstrument. The T rigger configuration must not be set to "disabled" NOTE NOTE Figu re 33 E nte ring a GPIB A ddress 3 Ent er an i nt eger valu e betw ee n 0 a nd 3 0 int o th is box an d p ress Enter. T he add ress is s et to t h is val ue. The defa ult GPI B addre ss is 20. NOTE A void using 2 1 as t he GPI B addre ss bec a us e this numbe r is o ften the cont ro ller ' s def au lt GPIB add ress. NOTE Figur e 34 Se lecti ng a B audr ate fo r the S erial Int erface 3 Move

to the B audra t e req uired a nd pres s Enter. The def ault B a u drate of the ser ial inter face is 3840 0 bp s.

NOTE Th e Bau drat e set for t he se ria l inte rface of t he ins tr ume nt sh ould matc h tha t set for the PC se rial in terfa ce con nec ted to it. The PC ser ial inter fa c e s h ould be con figure d to match the inst rument ’ s fixe d parameters. Refer t o “ Seri a l Int e rface ” on page 315 NOTE NOTE Reb oot t he main frame to r estore normal opera tion. NOTE Y ou retu rn to th e co nfigu ratio n m enu. Y ou see a box r eques ting you to ente r th e new pas sword. 4 Ent er you r new pas sword. It shou ld b e 4 di gits l ong.Fi gur e 37 S lot s w ith In sta ll ed M odu les 3 Move to the modu le using the curs or ke y for whi c h you req uire i nfor matio n. Press Ente r. 4 The p art n umb er, s er ial n um ber, a nd f irmw ar e re vision o f the c ho sen m odu le are displa yed, a s shown i n Figu re 38. The manu fac turer, part num ber, se rial num ber, and firm ware revisi on of th e ma in fra m e a re l is ted. The Agile nt 816 3A, Ag ilent 8164A, and Agilen t 8166A w ill always re turn Agil ent as the man ufa cture r. T his wi ll no t be a ffect ed by the transit ion of th ese ins trum en ts to Agi len t T echn olo gie s. T his will allow prog ram s that us e th is s t rin g to co nt in ue f unc ti o nin g. See “ How to Get Info rmat ion Abou t M odul es ” on pa ge 77 f or i nf or mati on on m odul e ide ntity str ings. The Ag ilent 8163 B, Agil ent 8164 B, a nd Agil ent 8166 B wi ll alwa ys retu rn Agil ent T echnolog ies as t he manufact urer. NOTE NOTE Ref er to t he us er’ s gu ide th at cam e with your mo ni tor, if n eces sary, to locat e y our monito r’ s outpu t and i nput po rts. NOTE This is the m axi mum num ber of d igit s aft er the de cimal point. Y ou wi l l see t he screen in Figu re 4 1.What are t he Power Un its. W att s W are the S I uni t fo r po wer m e as urement. Y ou ca n als o measure po wer in dB or d B m. V alues displ ayed in the se units are de rived fr om m easu re men t in Watts.

By s ele cting dBm, the follo w ing cal cu latio n is mad e Whe re, P dBm is the p ower valu e d ispla yed in dB m, and P inp ut is t he inp u t sig na l l eve l in Watt s. Pow er, i n unit s of d Bm, is m e asur ed relat ive to 1 m W, i t is an absol ute power me asur ement. By se lect ing d B, th e follow ing c alc ulation is m ade Whe re, P dB is the powe r va lue d ispla yed in d B, P inp ut is t he inp ut sig na l l eve l in Watt s, and P ref is t he cho s en r e fere nce p owe r valu e in W a tts. Pow er, i n unit s of dB, i s meas ure d re lativ e to a par ticular re ferenc e powe r val ue. Fo r inf ormati on on sel ectin g t his refe rence val ue, see “ How to Inpu t a Ref ere nce Lev el ” on page 88.RE FdBm or Whe re, P display is t he dis p laye d rela tiv e pow er, P meas ured i s the abso lute power level see “ How to S et t he Cali brat ion O ffse t ” on p age 87 , and REF is the refer ence l evel. Y ou ca n choo se the unit s fo r the r eferen ce u sing the Pow er U nit sof tkey. S etting t he refe rence only affe cts resu lts displ aye d in dB.P mea sur edB dB m. RE FdB or Whe re P disp l ay is t he displ ayed r elat ive po wer, P measure dA i s the abs olute powe r l evel s ee “ H ow to S e t the Ca libr ati on Offs et ” on pag e 87 mea sured by the c urren t Powe r Meter, a nd P measure dB i s the abs olu te powe r lev el see “ H ow to Se t th e Ca lib rati on Off set ” on pag e 87 measu red by the Pow er M ete r you ch oose to ref erenc e, and RE F is the r efe ren ce lev el in dec ibe ls dB. Y ou ca n onl y set th e ref erence level, REF, in d ec ibel s dB wh en y ou refere nce Power Meter’ s c ur rent power level. T his reference leve l is stored in separa te mem ory t han th e abs olute refer ence level. NOTE How to Re move Elec trical Offsets Op tical Powe r M eters mea su re opt ical p owe r by co nv erting opti cal po we r to e lect rica l pow er, a nd th en meas ur ing e lectri cal power.

An elec tric al o ffset i s elec tric al pow er t hat i s alw ays p re sent, even if t here n o optical power is i nput. If electrical offsets are not removed, they affect the accuracy of power measurement. If you are us ing m ulti mo de fib e ro ptic ca b le, yo u mu st dis co nne ct th e cabl e an d co ve r th e inpu t t o the Po wer Me ter to perform a ze ro. It is good prac tic e to p erfo rm a z ero befor e ma kin g an y im porta nt me asur eme nt s. T o remove ele ctri c al of fsets 1 Mak e sur e th e opt ical inp ut is not rece ivi ng a ny lig ht. If th e in stru me nt has j u st been sw itch ed on, wait unti l SE TTLIN G is not disp laye d for th e mod ule cha nne l. The enviro nmental condit ions a nd the tempera ture of t he instr ument affe ct el ectric al offse t. F or the be st resu lts you m ust NOTE Figu re 45 Zeroing

Sreen By defau lt, t he rang e mode of the slav e cha nnel, c hanne l 2, is the sam e as that for t he m aster ch anne l, chan nel 1. See T a ble 10 on pa ge 107 f o r mor e de tails. NOTE This means that the measured powe r is gre at er than the Upper Pow er Lim it.See T able 9 o n page 99 for mo re detai ls. Figure 50 Out of R ang e Power Less Than Resolution Figure 51 Ra nge Valu e Menu Lo nger a verag in g ti mes also dec rease se nsi tivit y. F or av eragin g time s of 1 s ec ond o r less, a n ew me asur ement is sh own at th e end of each averag ing t ime. Th is is draw n i n Figu re 52. F or a Dual Po wer S en sor, you ca nnot s et th e a verag ing tim e of the slav e cha nnel, c hann el 2, di rectly. By defau lt, t he aver agi ng tim e of th e slave cha nnel, c hann el 2, i s the s ame v alue as th at fo r the m aster c han nel, cha nnel 1. See T able 10 on pa ge 107 for mo re det ails. NOTE xxx xx xxx T avg P, is disp layed in p lace of P, the powe r valu e. This mode is inten de d princ ip ally for pola riza tion depen dent measur em ent s, but ca n be us e d for other t ypes o f measur ement.

Th is m od e is us ef ul f or me asur in g th e Pol ariz at ion D epe nd ent L o ss P D L o f a co mpo ne nt. The mi ni mum and max imum va lue s, in th i s buff er, a re dis pla yed. A fter N sam ple s are adde d to th e buffe r, t he bu ffer r ese ts and a n ew b uffer is create d. Y o u ca n us e Wi ndo w and Re f re sh mo de s, for ex am pl e, wh en you ar e s e ar chin g for or se tting the p os ition of mi nimu m PDL. Fo r a Dual Pow er Se nsor, y ou can not set t he av eragi ng tim e of th e sl ave cha nne l, cha nnel 2, dir ect ly. By defau lt, the aver aging time of the s lave cha nnel, ch a nnel 2, i s the sam e value as t hat for t he m ast er cha nnel, cha nnel 1. S ee T a ble 10 on page 107 for more d etail s. NOTE Wind ow Refr esh N Sa mple s N Sa mple s Ti me for di splay to updat e Ti me for displ ay to up da te The len gt h o f th e line s d ispl a yed r epresent s the size of th e b uff er at the time of upda te Mode Mode Fi gu re 56 In put Tr igger Mod e F or a Dual Po wer S en sor, you ca nnot s et th e a verag ing tim e of the slav e cha nnel, c hann el 2, di rectly. See T able 10 on pa ge 107 for mo re det ails. NOTE Fi gur e 57 O ut put Tri gger Mod e For som e comma nds, sett ing param ete rs for t he m aster c han nel se ts th e pa rame ters f or the sl ave ch anne l. In th ese cases, you may on ly se t param e ters fo r the slave c ha n ne l b y s et ti ng m as t er ch a nn el p ar am e te rs.Y ou can c hoose t o out put an optica l si gnal at eith er a sin gle wavel ength or at both wavel e n gths s im ul t aneo usly.Th e gre en LED on t he modu le f ront pan el swi tches o ff. For further i nformati on on modul ating t he opt ical o utput of a dual wavel ength l aser sourc e m odule, see “ H ow t o M od ula te Dual Wavel en gth Laser Source M o dules ” on pag e 115. NOTE Y ou see the sc re en i n Fig u re 6 0.Fo r detail s of the Of f setti ng “ How to Disable Modulat ion ” on page 11 3.

For detai l s of the Interna l se ttin g “ How to Use the Interna l Mod ulation ” on page 11 4 Fo r detail s of the C ohere nce Co ntrol se tting “ How to Increase Li new idt h ” on p age 114 Fo r detail s of the Ba ckpla ne se tting “ Exte rnal Di gital M o du lat ion us ing Input T rigg er Connect or ” o n page 147.Th e amp litud e is set by the powe r par amet er. The text In t app ear s in th e L as er Sou rce chan nel. En abl ing th e coh eren ce con tro l inc rease s the linew idt h of th e op tical o utput si gnal to betw een 50 a nd 5 00 MH z typical ly. Fo r t ypic al value s, refe r t o User’ s Gui de for your laser s ource module, among the Supp lem enta ry Pe rfor man ce C hara cter istic s pr ovid ed wi th th e mo dul e’s Sp ec ific ati on s. 4 Pres s En ter. The t ext CC appe ars i n th e Lase r Sou rce c hanne l. Output Pow er t For Ag ilent 8165 x Ser ies Dua l W a ve length Lase r Sou rce mod ules, you ca n choose indepe ndent mod ulat i on sourc es and ind ependen t modula tio n fr equ en c ie s fo r bo th w av el en gth s. If you cho ose indep ende nt mo dulati on sou rce s for a Du al Wavel ength Lase r S our ce mo dule, the tex t Mod wi ll be dis play ed in th e Lase r So urce ch anne l. If you cho ose the s ame m odul ation sour ces for b oth wa vele ngths of a Du a l Wav el eng th L ase r So ur ce mo du l e, t he r e lev an t te xt wil l b e di spl aye d in t he Las er S our ce ch ann el, for exam ple, Int if both wa vele ngt hs use int ern al mod ula tio n. NOTE NOTE T h i s s i g n a l i s o u t p u t w h e t h e r t h e l a s e r i s s w i t c h e d on or of f. 5 Press Ente r. A t unab le lase r is a lase r sou rce for w hich th e wav el ength c an be var ied thr o ugh a specif ied ra nge. The Ag ilent T echnolo gies T unable Laser mod ules also allow you to se t the output pow er, and to c hoose betwe en cont i n uous wave o r modul ated pow er. A contin uou s wav e signa l is th e de fault.

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